

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE N/A		PAGE 1 OF 70 PAGES		
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE SEP. 03, 2004		4. REQUISITION/PURCHASE REQ. NO. N/A		5. PROJECT NO. (If applicable) SPEC. NO. 1406	
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE					
DEPARTMENT OF THE ARMY U.S. ARMY ENGINEER DISTRICT, SACRAMENTO SACRAMENTO, CALIFORNIA 95814-2922				DEPARTMENT OF THE ARMY U.S. ARMY ENGINEER DISTRICT, SACRAMENTO SACRAMENTO, CALIFORNIA 95814-2922			

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(√)	9A. AMENDMENT OF SOLICITATION NO. W91238-04-B00007
		×	9B. DATED (SEE ITEM 11) AUG. 12, 2004
			10A. MODIFICATION OF CONTRACTS/ORDER NO. N/A
			10B. DATED (SEE ITEM 13) N/A
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) N/A	NOTE: ITEM 13 BELOW IS N/A.
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13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(√)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. N/A
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority) N/A

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) California Army National Guard (CAARNG) Readiness Center Lancaster, California

- 2 Encl.
- Revised Pages: List of Drawing and Specification Revisions, Pricing Schedule(page;1,4), Attachment No. 5 -Appendix D(page;D-2), 02230-1,02260-1,02300-1,02300-3,02741-8,02751-6,033000-4,03470-3,05310-1,08110-3,08331-5,08411-4,09260-3,09310-2, 09310-3,09511-4,09511-5,09680-1,09912-2,10200-3,10505-6,15515-6,15839-2,15839-3,15900-3,15900-5
 - Revised Drawings:T000,C101,C102,C103,C110,A004,A005,A212,S100,S101,S110,S111,S211,S220,S230,S240,S250,S300,S301, S302,S303,S306,S410,S412,S413,S414,S416,M602,E002,E003,E100,E221,E312,E530,E801

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	
15C. DATE SIGNED		16C. DATE SIGNED	

LANCASTER READINESS CENTER
REVISED DRAWINGS & SUMMARY OF CHANGES
(Amendment #2, 08-31-04)

Sheet	Drawing Title	Summary of Changes
T000	Cover Sheet, Vicinity and Location Maps	Added note to location map
A004	Symbols and Abbreviations	Added C.O.R. to the abbreviation list
A005	Room Finish Schedule	Revised ceramic tile pattern CT-1 and CT-2
A212	Enlarged First Floor Plan Sector 2	Added spec. to keynote 22
08110	Steel Doors and Frames	Revised Part 2.5 (B)
08331	Overhead Coiling Doors	Revised Part 2.2 (A)
08411	Aluminum Glass Curtain, Walls and Storefront	Revised Part 2.2 (A.1)
09260	Gypsum Bond Assemblies	Revised Part 2.2 (D.1)
09310	Ceramic Tile	Revised Part 2.1 (B & C) and (F.1)
09511	Acoustical Panel Ceilings	Revised Part 2.7 (A.1); added 2.7(D)
09680	Carpet	Revised Part 1.2 (A)
09912	Painting	Revised Part 2.1 (C.2, 4)
10200	Louvers and Vents	Revised Part 2.5 (A.1)
10505	Metal Lockers	Revised Part 2.3 (L.1)
12361	Metal Workbenches	Deleted entire section

LANCASTER READINESS CENTER
REVISED DRAWINGS & SUMMARY OF CHANGES
(Amendment #2, 08-31-04)

Sheet	Drawing Title	Summary of Changes
E002	Electrical Overall Single Line Diagram	Added keynote 3 & 4
E003	Electrical 480V MCC Single Line Diagram	Issued for construction
E100	Electrical Site Plan	Added fuel pump on site plan
E221	Electrical Second Floor Plan Sector 1 Lighting Plan	Revised keynote 1
E312	Electrical First Floor Sector 2 Power Plan	Revised detail callout
E530	Electrical Roof Fire Alarm Plan	Revised keynote 1
E801	Electrical Lighting Fixture Schedule	Revised lighting fixture schedule types T & AAA remarks Deleted type U

LANCASTER READINESS CENTER
REVISED DRAWINGS & SUMMARY OF CHANGES
(Amendment #2, 08-31-04)

Sheet	Drawing Title	Summary of Changes
M602	Mechanical Schedules	Revised EF 15
P241	Plumbing Unheated Storage Building	Removed from drawing set
15515	Water-Tube Boilers	Added Part 2.10 A
15839	Vehicle Exhaust Removal System	Revised Part 2.2 (B); Deleted Part 2.2 E, F, and G; Rename H and I to E and F
15900	HVAC Instrumentation and Controls	Added Part 1.5 (G); 2.2 A and revised 2.2 (B.1.h)

LANCASTER READINESS CENTER
REVISED DRAWINGS & SUMMARY OF CHANGES
(Amendment #2, 08-31-04)

Sheet	Drawing Title	Summary of Changes
S100	General Notes	Added reinforced concrete note # 16; Deleted structural and misc. steel note # 17; revised precast conc. Panels note #12; revised metal building note #1
S101	Abbreviations and Legends	Deleted moment connection symbol
S110	Enlarged Site Foundation Plans and Panel Elevations	Revised detail callouts and added section x-x on detail 5
S111	Canopies Framing Plans and Details	Revised details # 1, 4, 6, 7, 8, 10 and 11
S211	Storage Building Foundation Plan	Revised plan A notes and detail # 2; Revised foundation notes # 1
S220	Overall Second Floor Framing Plan	Revised detail callouts; added note on steel deck; revised framing note # 5; Deleted note C
S230	Overall Low Roof Framing Plan	Deleted metal deck note D, roof framing note D; and 9; revised # 10 to new # 9; revised truss to beam at column grid E near column grid 3
S240	Overall High Roof Framing Plan	Deleted metal deck note E, roof framing note # 9; revised note D and # 7; revised misc. notes on framing plan; added subframing on plan
S250	Enlarged Partial High Roof Framing Plan	Deleted note C and 5 Renumbered 6 to 5
S300	Typical Wall Panel Details	Added note # 14; deleted detail H callout
S301	Wall Panel Elevation	C12 notated at panel 2 elevation; Added panel 25 connection

S302	Wall Panel Elevation	Revised a detail callout
S303	Wall Panel Elevation	Revised two detail callouts
S306	Wall Panel Elevation	Revised panel dimensions
S410	Structural Details	Added dimension on detail #3; Revised detail callouts in detail #16
S412	Structural Details	Detail #3 added weld symbol & revised note
S413	Structural Details	Detail #2 and 7 added note; Detail #9 and 13 deleted note; Detail #14 revised note; Detail #16 & 18 revised detail callout
S414	Structural Details	Detail #2 and 3 revised detail callout; Detail #7 added dimension; Detail #9 and 17 revised note; Detail #14 deleted note; Revised detail #19
S416	Stairs 1, 2, & Roof Access Enclosed Plans & Sections	Revised note in detail # 3 and 5, revised enlarged plan # 8, 9, 10, 11 and 12
03300	Cast-In-Place Concrete	Revised Part 2.2 (F.2)
03470	Tilt-up precast concrete	Revised Part 2.1 (B)
05310	Steel Deck	Add Part 1.2 (2)

PRICING SCHEDULE

CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, MATERIAL, EQUIPMENT, ETC. NECESSARY TO PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE CONTRACT TO INCLUDE ALL ATTACHMENTS THERETO.

LINE ITEM NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE	UNIT PRICE	TOTAL PRICE
0001	MAIN BUILDING & CONTROLLED WASTE/ FLAMMABLE MATERIAL STORAGE	1	JOB	LUMP SUM	\$ _____
0002	SITE PREPARATION				
0002AA	CLEARING & GRUBBING	1	JOB	LUMP SUM	\$ _____
0002AB	PAD OVER-EXCAVATION, COMPACTION	1	JOB	LUMP SUM	\$ _____
0002AC	IMPORT FILL, COMPACT, GRADE	1	JOB	LUMP SUM	\$ _____
0003	PARKING AND ACCESS ROADS				
0003AA	GOV. PARKING & ACCESS ROADS	1	JOB	LUMP SUM	\$ _____
0003AB	POV/VISITOR PARKING & ACCESS ROADS	1	JOB	LUMP SUM	\$ _____
0004	UTILITY CONNECTIONS				
0004AA	WATER	1	JOB	LUMP SUM	\$ _____
0004AB	SEWER	1	JOB	LUMP SUM	\$ _____
0004AC	NATURAL GAS	1	JOB	LUMP SUM	\$ _____
0004AD	SUBSURFACE STORM DRAINAGE	1	JOB	LUMP SUM	\$ _____
0004AE	POWER/LIGHTING	1	JOB	LUMP SUM	\$ _____
0004AF	DATA/TELEPHONE (EXT. COND. & CABLE)	1	JOB	LUMP SUM	\$ _____
0005	SITE IMPROVEMENTS				
0005AA	CHAIN-LINK FENCE AROUND GOV. AREA	1	JOB	LUMP SUM	\$ _____
0005AB	WALKWAYS	1	JOB	LUMP SUM	\$ _____
0005AC	CHAIN-LINK FENCE AROUND POV AREA	1	JOB	LUMP SUM	\$ _____
0005AD	LANDSCAPING	1	JOB	LUMP SUM	\$ _____
0005AE	SITE ACCESSORIES, TRASH, ENCL., EQUIP. ENCL., MAILBOX, FLAGPOLE, Signage, etc.,	1	JOB	LUMP SUM	\$ _____

Encl. 1 to Amend. 0002

BID OPTIONS

(f) Line Item 0006 - (Bid Option #1) - Rigid (Concrete) Paving in **GOV parking area: The base bid scope for paving the GOV parking area provides 6 inches of aggregate base. This BOI provides 6 inches of broom finished concrete over that base. Concrete shall be per geotechnical report.**

(g) Line Item 0007 - (Bid Option #2) - Landscaping: This BOI provides site landscaping as indicated on sheets L001 thru L501.

(h) Line Item 0008 - (Bid Option #3) - Unheated Storage Building: All work in connection with the construction of Unheated Storage Building, including excavation and backfilling for foundation walls and footings, finish shaping, and proof rolling sub-grade material, and the gravel drainage fill under the floor slabs. Utility work will include the installation of all systems within the building and extended to a point 5'-0" outside the building. If this Bid Option Item is selected, the Controlled Waste/Flammable Storage Unit (which is part of the base bid) shall be considered part of this building (immediately adjacent), but shall not be included in the pricing of this Bid Option Item.

(i) Line Item 0009 - (Bid Option #4) Covered Wash Area: Shall include the concrete slab on grade, water supply, catch basin and metal cover. Base bid shall include the oil/water separator.

(j) Line Item 0010 - (Bid Option #5) Fuel System: All work in connection with furnishing and installation of fuel system equipment as shown on detail 1 on sheet C112. The supplier of the pumps shall furnish all information associated with proper installation of the tanks, pumps and piping and power connections for fueling equipment as part of pricing for the equipment and installation. Bid items include (but are not limited to): conduit and wire for power to the fueling area, concrete work (equipment pads, containment, island, curbs), hose bibs, water piping, drainage, and bollards.

(k) Line Item 0011 - (Bid Option #6) Other Furnishing: All work in connection with providing and installing marker boards, tack boards and projection screens in rooms 1212, 1216, 1217, 1218, 1219, 1224 and 1225.

(l) Line Item 0012 - (Bid Option #7) Folding Partitions: All work in association with the folding partitions separating rooms 1216 and 1217 and rooms 1218 and 1219.

(m) Line Item 0013 - (Bid Option #8) Lockers and Benches: All work in connection with furnishing and installing lockers and benches in Rooms 1135, 1138, 1106 and 1113.

(n) Line Item 0014 - (Bid Option #9) Food Service Equipment: All work in connection with furnishing and installing kitchen equipment as described on sheet A630, P630, and E305. Plumbing and Electrical required to support this equipment is part of the base bid scope.

- 2.11 **Moisture Content (MC)**: is the ratio of the weight of water to the weight of the dry solid material expressed as a percentage and determined by ASTM D2216, D3017 or the method approved by the engineer.
- 2.12 **Field Dry Density (FDD)**: is the dry density of natural or compacted material as determined by ASTM D1556 - Sand Cone Method or ASTM D2922 - Nuclear Methods or ASTM D2937 - Drive-Cylinder Method.
- 2.13 **Relative Compaction**: is the ratio of the field dry density to the maximum dry density, expressed as a percentage.

3.0 **GENERAL NOTES**

- ~~3.1 The Owner shall retain the Soil Engineer for quality assurance and testing services.~~
- 3.2 The Contractor shall be responsible for quality control through out the prosecution of the work.
- 3.3 Contractor shall visit the project site and become familiar with the site conditions prior to the bidding.
- 3.4 Contractor shall verify the site and subsurface conditions at no cost to the owner. The preliminary soil engineering report does not constitute the actual subsurface conditions at the time of constructions or at the locations different from the excavated test pits/borings.
- 3.5 All excavations and foundations for the structures shall be inspected and approved by the soil engineer, prior to the preparations of subgrade, and backfill.
- 3.6 All foundation soils underneath the retaining wall footings shall be scarified to a depth of at least one (1') foot, brought to uniform moisture content near optimum moisture content and recompact to a minimum relative compaction of 95% and as specified in the report.

4.0 **FIELD OBSERVATIONS AND TESTING**

Field observations and testing shall be performed by an experienced and qualified engineer (civil engineer, geotechnical engineer and their representatives). The engineer will observe and perform adequate amount of testing to meet the project and regulatory requirements. It will be the contractor's responsibility to assist the engineer, allow sufficient time and provide adequate notice to carry out the testing and schedule the personnel.

5.0 **PREPARATION OF FILL AREAS**

- 5.1 **Clearing, Overexcavation and Recomaction**: All areas receiving fill and used as foundation support shall be cleared of topsoil, vegetation, trash, debris and other deleterious materials. After clearing and grubbing, the over excavating, as stated in the preliminary geotechnical report, the area should be scarified as recommended in the report or to a minimum depth of 12 inches.

SECTION 02230 - SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Removing trees and other vegetation.
 - 2. Clearing and grubbing.
 - 3. Topsoil stripping.
 - 4. Removing above-grade site improvements.
 - 5. Disconnecting, capping or sealing, and abandoning site utilities in place.
 - 6. Disconnecting, capping or sealing, and removing site utilities.
- B. Related Sections include the following:
 - 1. Division 1 Section 01500, "Temporary Construction Facilities" for temporary utilities, temporary construction and support facilities, temporary security and protection facilities, and environmental protection measures during site operations.
 - 2. Division 2 Section 02300, "Earthwork" for soil materials, excavating, backfilling, and site grading.

1.2 DEFINITIONS

- A. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of weeds, roots, and other deleterious materials.

1.3 MATERIALS OWNERSHIP

- A. Except for materials indicated to be stockpiled or to remain Government's property, cleared materials shall become Contractor's property and shall be removed from the site.

1.4 SUBMITTALS

- A. Submit the following in accordance with Section 01330, "Submittal Procedures."
- B. Construction Photos or Video, sufficiently detailed, of existing conditions of trees and plantings, adjoining construction, and site improvements that might be misconstrued as damage caused by site clearing.

SECTION 02260 - EXCAVATION SUPPORT AND PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes temporary excavation support and protection systems.
- B. Related Sections include the following:
 - 1. Division 1 Section 01500, "Temporary Facilities and Controls" for temporary utilities and support facilities.
 - 2. Division 2 Section 02300, "Earthwork" for excavating and backfilling and for existing utilities.

1.2 PERFORMANCE REQUIREMENTS

- A. Design, furnish, install, monitor, and maintain excavation support and protection system capable of supporting excavation sidewalls and of resisting soil and hydrostatic pressure and superimposed and construction loads.
 - 1. Provide professional engineering services needed to assume engineering responsibility, including preparation of Shop Drawings and a comprehensive engineering analysis by a qualified professional engineer.
 - 2. Prevent surface water from entering excavations by grading, dikes, or other means.
 - 3. Install excavation support and protection systems without damaging existing buildings, pavements, and other improvements adjacent to excavation.

1.3 SUBMITTALS

- A. Submit the following in accordance with Section 01330, "Submittal Procedures."
- B. Shop Drawings for Information: Prepared by or under the supervision of a qualified professional engineer for excavation support and protection systems.
 - 1. Include Shop Drawings signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Qualification Data: For Installer and professional engineer.
- D. Photographs or videotape, sufficiently detailed, of existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by the absence of, the installation of, or the performance of excavation support and protection systems.

SECTION 02300 - EARTHWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Preparing subgrades for slabs-on-grade, walks, pavements, lawns, and plantings.
 - 2. Excavating and backfilling for buildings and structures.
 - 3. Base course for asphalt paving.
 - 4. Subsurface drainage backfill for walls and trenches.
 - 5. Excavating and backfilling trenches within building lines.
 - 6. Excavating and backfilling trenches for buried mechanical and electrical utilities and pits for buried utility structures.
- B. Related Sections include the following:
 - 1. Division 1 Section 01270 "Unit Prices" for a schedule of unit prices.
 - 2. Division 1 Section 01500 "Temporary Construction Facilities."
 - 3. Division 2 Section 02230, "Site Clearing" for site stripping, grubbing, removing topsoil, and protecting trees to remain.
 - 4. Division 2 Section 02260, "Excavation Support and Protection."
 - 5. Division 3 Section 03300, "Cast-in-Place Concrete" for granular course over vapor retarder.
 - 6. Division 15 and 16 Sections for excavating and backfilling buried mechanical and electrical utilities and buried utility structures.

1.2 DEFINITIONS

- A. Backfill: Soil materials used to fill an excavation.
 - 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
 - 2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Layer placed between the subbase course and asphalt paving.
- C. Bedding Course: Layer placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow: Satisfactory soil imported from off-site for use as fill or backfill.

- C. Samples: For the following:
 - 1. 30-lb samples, sealed in airtight containers, of each proposed soil material from on-site or borrow sources.
 - 2. 12-by-12-inch sample of drainage fabric.
 - 3. 12-by-12-inch sample of separation fabric.
- D. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated:
 - 1. Classification according to ASTM D 2487 of each on-site or borrow soil material proposed for fill and backfill.
 - 2. Laboratory compaction curve according to ASTM D 1557 for each on-site or borrow soil material proposed for fill and backfill.

1.4 QUALITY ASSURANCE

- A. Geotechnical Testing Agency Qualifications: An independent testing agency qualified according to ASTM E 329 to conduct soil materials and rock-definition testing, as documented according to ASTM D 3740 and ASTM E 548.
- B. Preexcavation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section 01310, "Project Management and Coordination."

1.5 PROJECT CONDITIONS

- A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Government or others unless permitted in writing by COR and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify COR not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without COR's written permission.
 - 3. Contact utility-locator service for area where Project is located before excavating.
- B. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies to shut off services if lines are active.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

- b. Field density of in-place compacted pavement may also be determined by nuclear method according to ASTM D 2950 and correlated with ASTM D 1188 or ASTM D 2726.
- F. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.9 DISPOSAL

- A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in an EPA-approved landfill.
 - 1. Do not allow excavated materials to accumulate on-site.

3.10 SURFACE TREATMENTS

- A. **Fog Seals: Apply 2 coats of fog seal at a rate of 0.10 tp 0.15 gal./sq. yd. each to the asphalt pavement and allow to cure. With a fine sand, lightly dust areas receiving excess fog seal.**

END OF SECTION 02741

- C. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber, or ASTM D 1752, cork or self-expanding cork.
- D. Pavement-Marking Paint: Latex, water-base emulsion; ready mixed; complying with FS TT-P-1952.
 - 1. Color: As indicated.
- E. Glass Beads: AASHTO M 247.

2.7 CONCRETE MIXES

- A. Prepare design mixes, proportioned according to ACI 211.1 and ACI 301, for each type and strength of normal-weight concrete determined by either laboratory trial mixes or field experience.
- B. Use a qualified independent testing agency for preparing and reporting proposed mix designs for the trial batch method.
- C. Proportion mixes to provide concrete with the following properties:
 - 1. Compressive Strength (28 Days): 3000 psi .
 - 2. Slump Limit: 4 inches .
 - a. Slump Limit for Concrete Containing High-Range Water-Reducing Admixture: Not more than 8 inches after adding admixture to plant- or site-verified, 2- to 3-inch slump.
- D. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement according to ACI 301 requirements for concrete exposed to deicing chemicals.
- E. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
 - 1. Fly Ash: **15 percent minimum.**
 - 2. Combined Fly Ash and Pozzolan: 25 percent.
- F. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content of 2.5 to 4.5 percent.

2.8 CONCRETE MIXING

- A. Ready-Mixed Concrete: Comply with requirements and with ASTM C 94.
- B. Ready-Mixed Concrete: Comply with requirements and with ASTM C 94 and ASTM C 1116.

	(psi)	Size (inch)	(Inch)
Slabs-on-Grade	4,000	1	3
Foundations	3,000	1-1/2	3
Tilt-up-wall Panels	3,000 (min)	1	4
Structural Light wt	3,000	3/4	4
Others	3,500	1	4

- F. Integral Color Admixture:
1. Sidewalk: Davis Color or approved equal.
 2. Color: CONC-2 and CONC-1. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**
 3. Pattern: As indicated on drawings.

PART 3 - EXECUTION

3.1 FORMWORK

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until concrete structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
- C. Limit concrete surface irregularities, designated by ACI 347R as abrupt or gradual, as follows:
1. Class A, 1/8 inch.
 2. Class B, 1/4 inch.
 3. Class C, 1/2 inch.
 4. Class D, 1 inch.
- D. Construct forms tight enough to prevent loss of concrete mortar.
- E. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical. Kerf wood inserts for forming keyways, reglets, recesses, and the like, for easy removal.
1. Do not use rust-stained steel form-facing material.
- F. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.

PART 2 - PRODUCTS

2.1 CONCRETE MIXES

- A. Normal-Weight Concrete: Proportion normal-weight concrete mix as follows:
 - 1. Compressive Strength (28 Days): 3,000 psi min. (See Structural Drawings).
- B. Integral Color Admixture: Davis Colors or approved equal. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**

2.2 MANUFACTURED ITEMS

- A. Lifting hardware, inserts, braces, and related embedded and attached items shall be manufactured specifically for tilt-up construction.

2.3 FORMS

- A. Panel boundary forms shall be rigidly constructed and well braced steel or wood forms, straight and with precise corners. Design to withstand stresses resulting from the casting process. Consideration should be given to exposed formed surfaces.
- B. Forms shall contain reveals, block-outs required to provide openings detailed on Drawings.
- C. Panels may be stacked for ease of casting, in forms as specified above.
- D. Bondbreaker must be compatible with curing compound and other finishes, including paint, and with floor finish.

2.4 FORM LINERS

- A. Basis of Design: Fitzgerald Formliners or approved equal.
- B. Pattern: 17942, March Lanc, "V" Wave, Vac-U-Form.
- C. Size: 96 inches (wide) x 48 inches (high) x 1 inches (depth).

PART 3 - EXECUTION

3.1 FORMS

- A. Construct and brace formwork so tilt-up precast concrete panels are of size, shape, alignment, elevation, and position indicated.

SECTION 05310 - STEEL DECK

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Roof deck.
 - 2. Acoustical roof deck.
 - 3. Composite floor deck.
- B. Related Sections include the following:
 - 1. Division 3 Section 03300, "Cast-in-Place Concrete" for concrete fill and reinforcing steel.
 - 2. Division 5 Section 05120, "Structural Steel" for shop-welded shear connectors.
 - 3. Division 5 Section 05500, "Metal Fabrications" for framing deck openings with miscellaneous steel shapes.
 - 4. Division 7 Section 07811, "Sprayed Fire-Resistive Materials" for protection of structural members.

1.2 SUBMITTALS

- 1. Product data on acoustical roof deck.
- 2. **Shoring plan to be approved by the Contracting Officer Representative (COR).**

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Steel roof deck and perforated acoustical roof deck.
- B. Steel floor deck.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance.

J. Frame Construction:

1. Fabricate frames with mitered or coped and continuously welded corners and seamless face joints. Provide temporary spreader bars.
2. Fabricate knock-down, drywall slip-on frames for in-place gypsum board partitions.

K. Reinforce doors and frames to receive surface-applied hardware. Drilling and tapping for surface-applied hardware may be done at Project site.

L. Locate hardware as indicated or, if not indicated, according to ANSI A250.8.

M. Glazing Stops: Manufacturer's standard, formed from 0.032-inch-thick steel sheet.

1. Provide nonremovable stops on outside of exterior doors and on secure side of interior doors for glass, louvers, and other panels in doors.
2. Provide screw-applied, removable, glazing stops on inside of glass, louvers, and other panels in doors.

N. Astragals: As required by NFPA 80 to provide fire ratings indicated.

2.5 FINISHES

A. Prime Finish: Manufacturer's standard, factory-applied coat of rust-inhibiting primer complying with ANSI A250.10 for acceptance criteria.

B. Field Paint: **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**

PART 3 - EXECUTION

3.1 INSTALLATION

A. Placing Frames: Comply with provisions in SDI 105, unless otherwise indicated. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.

1. Wall Anchors: Provide at least three anchors per jamb. For openings 90 inches or more in height, install an additional anchor at hinge and strike jambs.
2. Gypsum Board Partitions: For in-place partitions, install drywall slip-on frames.
3. Fire-Rated Frames: Install according to NFPA 80.

B. Door Installation: Comply with ANSI A250.8. Shim as necessary to comply with SDI 122 and ANSI/DHI A115.1G.

1. Fire-Rated Doors: Install within clearances specified in NFPA 80.

2. Door-Operator Type: Wall-, hood-, or bracket-mounted unit with electric motor, belt-reduction drive, and chain and sprocket secondary drive.
 3. Through-wall-mounted motor operator.
- T. Electric Motors: High-starting torque, reversible, continuous-duty Class A insulated, electric motors complying with NEMA MG 1; with overload protection; sized to start, accelerate, and operate door in either direction from any position, at not less than 2/3 fps and not more than 1 fps, without exceeding nameplate ratings or service factor. Coordinate wiring requirements and electrical characteristics of motors with building electrical system.
1. Open dripproof-type motor, and controller with NEMA ICS 6, Type 1 enclosure.
 2. Totally enclosed, nonventilated or fan-cooled motor, fitted with plugged drain, and controller with NEMA ICS 6, Type 4 enclosure where indicated.
- U. Control Equipment: NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6, with NFPA 70 Class 2 control circuit, maximum 24-V, ac or dc, with remote, three-button control station.
1. Interior units, full-guarded, surface-mounted, heavy-duty type, with general-purpose NEMA ICS 6, Type 1 enclosure.
 2. Exterior units, full-guarded, surface-mounted, standard-duty, weatherproof type, NEMA ICS 6, Type 4 enclosure, key operated.
 3. Obstruction Detection Device: External automatic safety sensor capable of protecting full width of door opening. Activation of sensor immediately stops and reverses downward door travel.
 4. Provide electric operators with ADA-compliant audible alarm and visual indicator lights.

2.2 FINISHES

A. Galvanized Steel Finish:

1. Color and Gloss: Kynar 500. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install coiling doors and operating equipment complete with necessary hardware, jamb and head molding strips, anchors, inserts, hangers, and equipment supports
1. Install fire-rated doors to comply with NFPA 80.

- e. Water leakage through fixed glazing and framing areas.
 - f. Failure of operating components to function properly.
- 2. Warranty Period: Two years from date of Substantial Completion.
- B. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components on which finishes fail within specified warranty period. Warranty does not include normal weathering.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 1. Sheet and Plate: ASTM B 209 (ASTM B 209M).
 - 2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221 (ASTM B 221M).
 - 3. Extruded Structural Pipe and Tubes: ASTM B 429.
 - 4. Structural Profiles: ASTM B 308/B 308M.
- B. Steel Reinforcement: With manufacturer's standard corrosion-resistant primer.
 - 1. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
 - 2. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
 - 3. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.

2.2 FRAMING SYSTEMS

- A. Framing Members: Manufacturer's standard extruded-aluminum framing members of thickness required and reinforced as required to support imposed loads.
 - 1. Color: Kynar 500. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**
- B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
 - 1. Where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
 - 2. Reinforce members as required to receive fastener threads.
 - 3. Use exposed fasteners with countersunk Phillips screw heads, finished to match framing system.

4. Firestop Track: Top runner manufactured to allow partition heads to expand and contract with movement of the structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.
5. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
 - a. Minimum Base Metal Thickness: 0.0179 inch.
6. Cold-Rolled Channel Bridging: 0.0538-inch bare steel thickness, with minimum 1/2-inch-wide flange, and in depth indicated.
 - a. Clip Angle: 1-1/2 by 1-1/2 inch, 0.068-inch-thick, galvanized steel.
7. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

2.2 PANEL PRODUCTS

- A. Panel Size, General: Provide in maximum lengths and widths available that will minimize joints in each area and correspond with support system indicated.
- B. Gypsum Wallboard: ASTM C 36.
 1. Type X: In thickness indicated and with long edges tapered.
- C. Sag-Resistant Gypsum Wallboard: ASTM C 36, manufactured to have more sag resistance than regular-type gypsum board, 1/2 inch thick, and with long edges tapered. Apply on ceiling surfaces.
- D. Tile Backing Panels:
 1. **Moisture**-Resistant Gypsum Backing Board: ASTM C 630/C 630M, with core type and in thickness indicated.
 2. Cementitious Backer Units: ANSI A118.9, in thickness indicated.

2.3 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
 1. Cornerbead: Use at outside corners, unless otherwise indicated.
 2. LC-Bead: Use at exposed panel edges.
 3. L-Bead: Use where indicated.
 4. U-Bead: Use where indicated.

PART 2 - PRODUCTS

2.1 TILE

- A. ANSI Ceramic Tile Standard: Provide Standard grade tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.
- B. Ceramic Floor Tile CT-1: Factory-mounted flat tile as follows:
 - 1. Composition: Porcelain.
 - 2. Module Size: 2 by 2 inches (CT-1).
 - 3. Thickness: 1/4 inch.
 - 4. **Coefficient of Friction: 0.6 minimum.**
 - 5. Finish: Matt.
 - 6. Color: **To be selected from manufacture full range by the Contracting Officer Representative (COR).**
 - 7. Grout: **To be selected from manufacture full range by the Contracting Officer Representative (COR).**
- C. **Quarry Tile QT:**
 - 1. **Size: 8 by 8 inches.**
 - 2. **Thickness: 3/8 inch.**
 - 3. **Color: Dal-Tile or approved equal – Ashen Gray (OT03).**
 - 4. **Grout: Mapei or approved equal.**
- D. Glazed Wall Tile CT-2 and CT- 4: Flat tile, per TCA W244-03 Standard and as follows:
 - 1. Module Size: 4-1/4 by 4-1/4 inches.
 - 2. Thickness: 5/16 inch.
 - 3. Face: Pattern of design indicated in Drawings, with manufacturer's standard edges.
 - 4. Finish: Semi-gloss.
 - 5. Mounting: Factory back-mounted.
 - 6. Color: Dal-Tile, Field: White K101, Accent: Grape DH57 and Desert Gray X114 (CT-2) and Field: Almond 0135 Accent: Chamois K180 (CT-4).
 - 7. Grout: Mapei or approved equal, #00, White/Blanc (CT-2 and CT-4).
- E. Glazed Wall Tile Trim Units: Matching characteristics of adjoining flat tile and coordinated with sizes and coursing where applicable.
 - 1. Base: Coved, module size 2 by 2 inches.
 - 2. Wainscot Cap: Bullnose, module size 4-1/4 by 4-1/4 inches.
 - 3. External Corners: Bullnose.
 - 4. Internal Corners: Field-buttet square corners except with coved base and cap angle pieces designed to fit with stretcher shapes.
- F. Ceramic Trim Units: Matching characteristics of adjoining flat tile and coordinated with sizes and coursing where applicable.

1. Base Trim: Cove, module size 4-1/4 by 4-1/4 (CT-1) and 4 by 8 (CT-3).
2. Base Cap: Bullnose 2 by 2 inches.
3. External Corners: Bullnose, module size 2 by 1 inch.
4. Internal Corners: Cove.
5. Tapered Transition Tile: Shape designed to effect transition between thickness of tile floor and adjoining floor finishes of different thickness, tapered to provide reduction in thickness from 1/2 to 1/4 inch across nominal 4-inch dimension.

2.2 ACCESSORY MATERIALS

- A. Thresholds: Fabricate to provide transition between adjacent floor finishes. Bevel edges at 1:2 slope, limit height of bevel to 1/2 inch or less, and finish bevel to match face of threshold.
 1. Marble Thresholds: ASTM C 503 with a minimum abrasion resistance of 10 per ASTM C 1353 or ASTM C 241 and with honed finish.
 - a. Description: Uniform, fine- to medium-grained white stone with gray veining.
- B. Waterproofing and Crack-Suppression Membranes for Thin-Set Tile Installations: Manufacturer's standard product that complies with ANSI A118.10 and Tile Council of America (TCA), F121-03 / F122-03.

2.3 SETTING AND GROUTING MATERIALS

- A. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.1A.
- B. Dry-Set Portland Cement Mortar (Thin Set): ANSI A118.1.
 1. For wall applications, provide nonsagging mortar.
- C. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4.
 1. Prepackaged dry-mortar mix containing dry additive to which only water must be added.
 2. Prepackaged dry-mortar mix combined with liquid-latex additive.
 3. For wall applications, provide nonsagging mortar.
- D. Chemical-Resistant, Water-Cleanable, Tile-Setting and Grouting Epoxy: ANSI A118.3.
- E. Water-Cleanable, Tile-Setting Epoxy Adhesive: ANSI A118.3.
- F. Organic Adhesive: ANSI A136.1, Type I.
- G. Standard Sanded Cement Grout: ANSI A118.6, color as indicated.
- H. Standard Unsanded Cement Grout: ANSI A118.6, color as indicated.

2.4 ACOUSTICAL CEILING PANELS (SAT-3)

A. Basis of Design:

1. Armstrong-Dune, Angled Tegular # 1776 or approved equal.

B. Color: White.

C. Edge Detail: Square with curved edge as required.

D. Thickness: 5/8 inch.

E. Size: 24 by 48 inches.

2.5 ACOUSTICAL CEILING PANELS (SAT-4)

A. Basis of Design:

1. Armstrong Metalworks Vector, smooth textured with micro-perforated with acoustic fleece #9420U6A2WH or approved equal.

B. Color: Silver Gray (SG).

C. Edge Detail: Square.

D. Thickness: 5/16 inch.

E. Size: 24 by 24 inches.

2.6 METAL SUSPENSION SYSTEM

A. Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 (Z90) coating designation, with prefinished 15/16-inch-wide metal caps on flanges.

1. Structural Classification: Intermediate-duty system.
2. End Condition of Cross Runners: Override type.
3. Cap Material: Steel or aluminum cold-rolled sheet.
4. Cap Finish: White for SAT-1, SAT-2, SAT-3 and Silver Gray for SAT-4.

2.7 ACOUSTICAL WALL PANELS (AWP-1)

A. Basis of Design:

1. Armstrong acoustical wall panel or approved equal with Koreseal fabric: Inspiration series, **Prestige** Granite #14-09.

B. Size: 48 by 96 inches.

C. Thickness: 1 inch.

D. Flame Spread: Class A.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install acoustical panel ceilings to comply with ASTM C 636, UBC Standard 25-2 and seismic requirements indicated, per manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
- B. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width tiles at borders.
- C. Suspend ceiling hangers from building's structural members, plumb and free from contact with insulation or other objects within ceiling plenum. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, counter-splaying, or other equally effective means. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers, use trapezes or equivalent devices.
 - 1. Do not support ceilings directly from permanent metal forms or floor deck; anchor into concrete slabs.
 - 2. Do not attach hangers to steel deck tabs or to steel roof deck.
- D. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels. Screw attach moldings to substrate with concealed fasteners at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
- E. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- F. Install acoustical panels with undamaged edges and fit accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

END OF SECTION 09511

SECTION 09680 - CARPET TILE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes woven and tufted carpet.

1.2 SUBMITTALS

- A. Product Data: For each product indicated, **including information showing that the product passed AATCC 107 – 2002 colorfastness to water.**
- B. Samples: For each carpet and exposed accessory and for each color and pattern required.
- C. Maintenance data.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

1.5 PROJECT CONDITIONS

- A. General: Comply with CRI 104, Section 6.1, "Site Conditions; Temperature and Humidity."
- B. Environmental Limitations: Do not install carpet until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install carpet over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet tile before installing these items.

1. Quantity: 2 percent, but not less than 1 gal. of each material and color applied.

PART 2 - PRODUCTS

2.1 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- B. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
- C. Basis of Design: SherwinWilliams or approved equal.
 1. Exposed exterior pipes/conduits/downspout: Rhinestone SW1235, flat acrylic.
 2. Exposed exterior metal coping: Semi-gloss acrylic. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**
 3. Interior walls (P): Rhinestone SW1235, semi-gloss acrylic.
 4. Interior soffit accent in Assembly Hall, Toilet Rooms, Physical Fitness and Break/Vending Room: Flat acrylic. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**
 5. Exposed interior ductwork, piping, conduits in Assembly Hall: "Rhinestone", SW1235, flat acrylic.

2.2 PREPARATORY COATS

- A. Exterior Primer: Exterior alkyd or latex-based primer of finish coat manufacturer and recommended in writing by manufacturer for use with finish coat and on substrate indicated.
 1. Ferrous-Metal and Aluminum Substrates: Rust-inhibitive metal primer.
 2. Zinc-Coated Metal Substrates: Galvanized metal primer.
 3. Where manufacturer does not recommend a separate primer formulation on substrate indicated, use paint specified for finish coat.
- B. Interior Primer: Interior latex-based or alkyd primer of finish coat manufacturer and recommended in writing by manufacturer for use with finish coat and on substrate indicated.
 1. Ferrous-Metal Substrates: Quick drying, rust-inhibitive metal primer.
 2. Zinc-Coated Metal Substrates: Galvanized metal primer.
 3. Where manufacturer does not recommend a separate primer formulation on substrate indicated, use paint specified for finish coat.

2.5 FINISHES

- A. Aluminum, Baked-Enamel Finish: Clean with inhibited chemicals and apply conversion coating and primer/topcoat system complying with AAMA 2603, except with a minimum dry film thickness of 1.5 mils, medium gloss.
 - 1. Color: Match Kynar 500. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Locate and place louvers and vents level, plumb, and at indicated alignment with adjacent work.
- B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
- C. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- D. Repair damaged finishes so no evidence remains of corrective work. Return items that cannot be refinished in the field to the factory, make required alterations, and refinish entire unit or provide new units.
- E. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a heavy coating of bituminous paint on surfaces that will be in contact with concrete, masonry, or dissimilar metals.

END OF SECTION 10200

4. Boxed End Panels: Fabricated from 0.0528-inch- thick, cold-rolled steel sheet.

L. Finish: Baked enamel or powder coat.

1. Basis of Design: Penco Products, Inc., or approved equal. **Color to be selected from manufacture full range by the Contracting Officer Representative (COR).**

2.4 LOCKER ROOM BENCHES

A. General: Provide locker room benches fabricated by same manufacturer as metal lockers.

B. Bench Tops: Manufacturer's standard 1-piece units, of the following material, minimum 9-1/2 inches wide by 1-1/4 inches thick, with rounded corners and edges:

1. Laminated maple or birch with one coat of clear sealer on all surfaces, and one coat of clear lacquer on top and sides.

C. Fixed Pedestals: Manufacturer's standard supports, with predrilled fastener holes for attaching bench top and anchoring to floor, complete with fasteners and anchors, and as follows:

1. Steel Tubing: 1-1/2-inch- diameter steel tubing threaded on both ends, with standard pipe flange at top and bell-shaped cast-iron base; with baked-enamel or powder-coat finish; anchored with exposed fasteners.

a. Basis of Design: Penco Products, Inc., or approved equal, #28 "Gray."

2.5 FABRICATION

A. General: Fabricate metal lockers square, rigid, and without warp; with metal faces flat and free of dents or distortion. Make exposed metal edges free of sharp edges and burrs, and safe to touch.

1. Form body panels, doors, shelves, and accessories from one-piece steel sheet, unless otherwise indicated.

2. Provide fasteners, filler plates, supports, clips, and closures as required for a complete installation.

B. Unit Principle: Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments.

C. Knocked-Down Construction: Fabricate metal lockers for nominal assembly at Project site using nuts, bolts, screws, or rivets. Factory weld frame members together to form a rigid, one-piece assembly.

D. All-Welded Construction: Factory preassemble metal lockers by welding all joints, seams, and connections, with no bolts, nuts, screws, or rivets used in assembly of main locker groups. Factory weld main locker groups into one-piece structures. Grind exposed welds flush.

2. Motorized Vent Damper: Interlocked with burner to open before burner is operating. If damper fails to open, stop burner operation.
3. Operating Pressure Control: Factory wired and mounted to cycle burner.

- C. Building Management System Interface: Factory-installed hardware and software to enable building management system to monitor and control hot-water set point and display boiler status and alarms.

2.8 VENTING KITS

- A. Vent Damper: Motorized, 24-V ac, UL listed for use with standing pilot or intermittent ignition on atmospheric burner boiler equipped with draft hood. Interlock with burner.
- B. Kit: ASTM A 959, Type 29-4C, stainless-steel vertical vent terminal, roof passage thimble, indoor wall plate, vent adapter, condensate trap, and sealant.
- C. Combustion-Air Intake: Stainless-steel, vent terminal with screen, inlet air coupling, and sealant.
- D. Chimney and Type B Vent Adapter: Vent adapter and sealant.

2.9 SOURCE QUALITY CONTROL

- A. Test and inspect factory-assembled boilers, before shipping, according to ASME Boiler and Pressure Vessel Code: Section I, for high-pressure boilers and Section IV, for low-pressure boilers.
- B. Burner and Hydrostatic Test: Factory adjust burner to eliminate excess oxygen, carbon dioxide, oxides of nitrogen, and carbon monoxide in flue gas and to achieve combustion efficiency; perform hydrostatic test.
- C. Allow Government access to source quality-control testing of water-tube boilers. Notify COR 14 days in advance of testing.

2.10 FREEZE PROTECTION

- A. **Add 26% by mass Glycol to hot water system.**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Before boiler installation, examine roughing-in for concrete equipment bases, anchor-bolt sizes and locations, and piping and electrical connections to verify actual locations, sizes, and other conditions affecting boiler performance, maintenance, and operations.
 1. Final boiler locations indicated on Drawings are approximate. Determine exact locations before roughing-in for piping and electrical connections.

1.5 COORDINATION

- A. Coordinate layout and installation of exhaust fan and support structure with other trades including but not limited to lighting, conduits, piping, sprinklers, and ductwork.
- B. Coordinate layout and installation of floor receptacles and underground ductwork with under slab sanitary waste lines, under slab waste oil lines, and other trades.

1.6 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Belts: One set for each belt-driven fan.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
 - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 VEHICLE EXHAUST REMOVAL SYSTEM

- A. Manufacturers:
 - 1. Ammerman.
 - 2. Car-Mon Products, Inc.
 - 3. General Resource Corporation - Ammerman
 - 4. National System of Garage Ventilation, Inc.
 - 5. PlymoVent Corporation.
- B. Configuration: System shall be an **overhead** type with **Two 35 ft** hose reel @ **695 Deg F exhaust temperature** with ductwork, exhaust fan, fittings, and accessories as required.
- C. Exhaust Fan:
 - 1. Fan shall be single inlet, single width centrifugal fan with non-overloading, backward inclined fan wheel. Fan blades shall be continuously welded to both the shroud and the back plate. The fan wheel shall be statically and dynamically balanced before assembly. Any required balance weights shall be welded to the outside of the shroud or back plate; no weights shall be installed in the air stream.

2. Bearings shall be pillow block type with cast steel frame and shall be bolted to the structural angle bearing supports. Fan shaft shall be fabricated of ground and polished cold drawn steel with machined centers and keys for the fan wheel and drive shaft. Fan shaft shall have a rust inhibitive coating after assembly. The V-belt drive shall be adjustable. The variable pitch sheave shall be factory set at the appropriate position to provide the specified capacity in the midpoint of the adjustment range. Fan shall include belt guard enclosing both sheaves and V-belts. Drive shall be rated for no less than 150% of motor load.
 3. Fan housing shall be made of 12-gauge minimum cold rolled steel. All seams in individual components shall be continuously welded. Fan base and inlet support shall be fabricated of 12 gauge minimum cold rolled steel. Bearing supports shall be fabricated of cold rolled steel angles welded to the sides of the base. Motor base shall be fabricated of 10 gauge minimum cold rolled steel. Motor base shall be adjustable through the use of adjustment bolts that travel through slots in the sides of the fan base. All surfaces of the fan exposed to the air stream including the complete fan wheel shall be painted completely with an acid-resistant, phenolic synthetic resinous coating.
- D. Exhaust Fan Mounting Platform:
1. Wall mount fan or ceiling suspension platform shall be heavy-duty, all welded construction. The platform shall use 3/16" thick angle iron. The 3" x 4.1 lb base channel of the vibration rails shall be an integral part of the platform assembly.
- E. Above floor ductwork shall be 18 gauge-galvanized steel by United Sheet Metal spiral duct or equivalent.
- F. Provide vibration isolation for each support point of exhaust fan. Refer to Section "Mechanical Vibration Controls."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install exhaust fan and support structure level and plumb. Maintain sufficient clearance for normal service and maintenance. Field verify actual location coordinate with other mechanical/plumbing, structural and architectural plans.

3.2 CONNECTIONS

- A. Connect ducts to fan with flexible connections according to Division 15 Section "Duct Accessories."
- B. Connect wiring according to Division 16 Section "Conductors and Cables."

4. Inspection period, cleaning methods, cleaning materials recommended, and calibration tolerances.
5. Calibration records and list of set points.

- I. Qualification Data: For firms and persons specified in "Quality Assurance" Article.
- J. Project Record Documents: Record actual locations of control components, including control units, thermostats, and sensors. Revise Shop Drawings to reflect actual installation and operating sequences. All software and firmware operational documents should also be revised to final conditions. The software back-up should be complete enough to allow re-creation of the as-built system, if there is a hard drive crash or computer theft.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is an authorized representative of the automatic control system manufacturer for both installation and maintenance of units required for this Project.
- B. Manufacturer Qualifications: A firm experienced in manufacturing automatic temperature-control systems similar to those indicated for this Project and with a record of successful in-service performance.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilation Systems."
- E. Comply with ASHRAE 135 for DDC system control components.
- F. Year-2000 Compliant: Computer hardware and software shall be capable of accurately processing, providing, and receiving date data from, into, and between the twentieth and twenty-first centuries, including leap-year calculations.
- G. **Comply with "LonWorks Protocol."**

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Factory-Mounted Components: Where control devices specified in this Section are indicated to be factory mounted on equipment, arrange for shipping of control devices to unit manufacturer.

1.7 COORDINATION

- A. Coordinate location of thermostats, humidistats, and other exposed control sensors with plans and room details before installation.

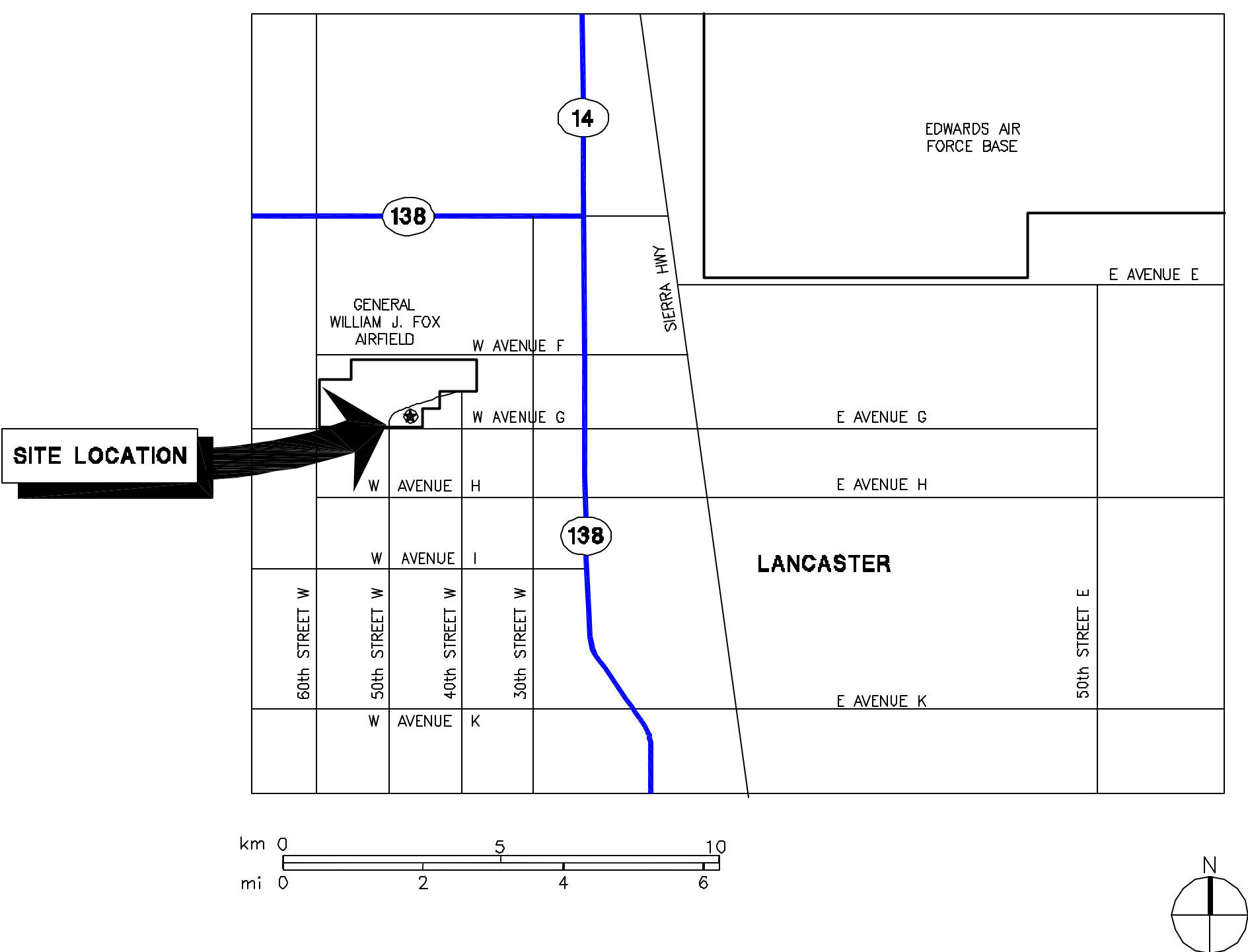
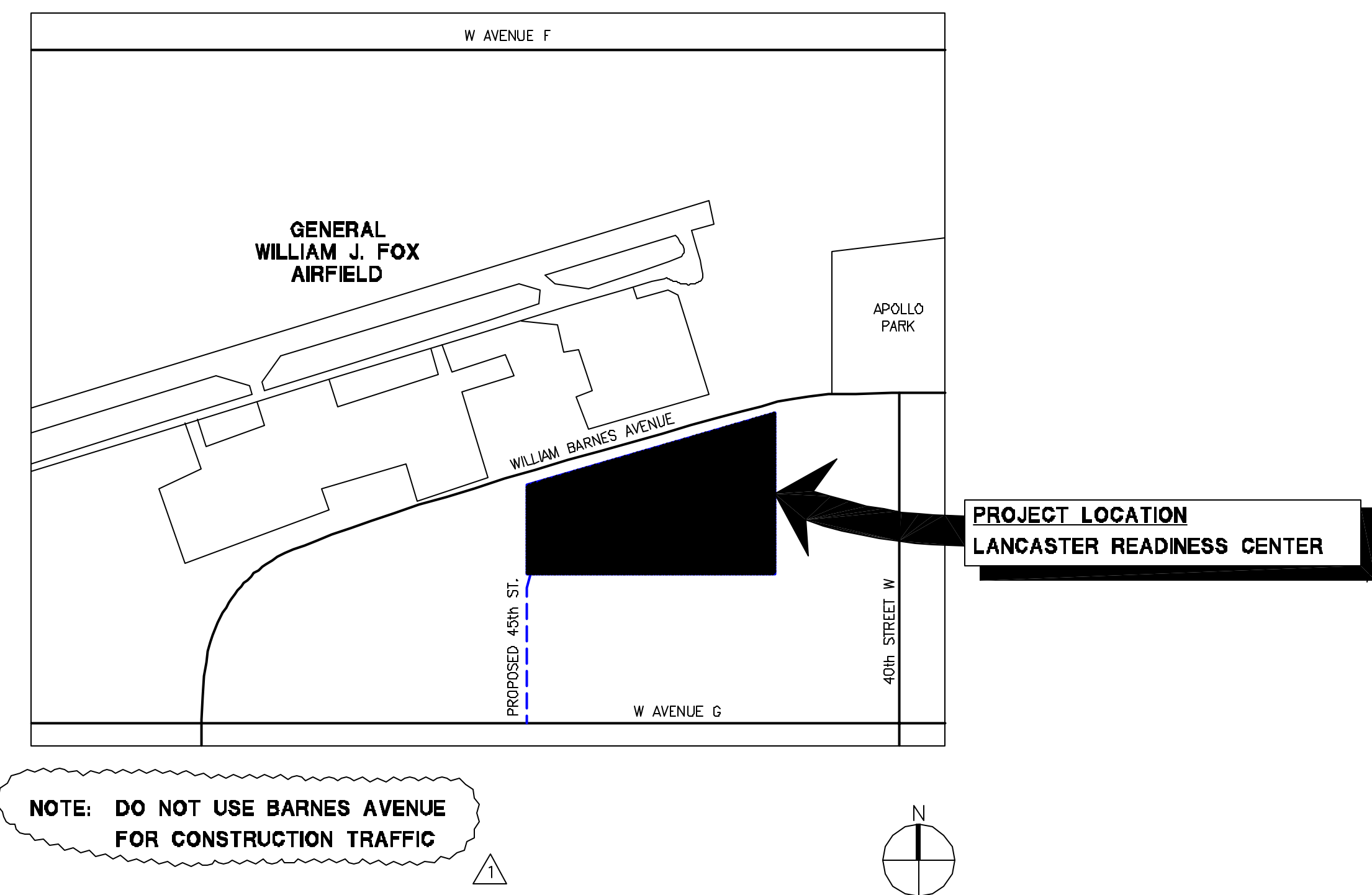
2.2 OPERATOR WORKSTATION (OWS)

- A. ECMS Operator Workstation Operation: Operator workstation shall be provided as part of the ECMS. One OWS shall be located in the maintenance room.**
- B. Hardware: As a minimum, provide the following hardware. Where the ECMS manufacturer's recommended OWS hardware requirements exceeds these minimum requirements, provide hardware in accordance with the manufacturer's recommendations.
1. A personal computer with Intel Pentium IV processor with the following minimum requirements:
 - a. 3000 megahertz clock speed or higher.
 - b. 512 megabytes of RAM.
 - c. 512 kilobytes cache on CPU.
 - d. 1 4 megabyte, 3-1/2 inch floppy disk drive.
 - e. 32x CD ROM/DVD/RW
 - f. 20 Gigabyte IDE ULTRA 160 hard drive with maximum 9 millisecond access time.
 - g. Super Video Graphics Array (SVGA) display driver with minimum 32 megabytes of video RAM and MPEG capability.
 - h. 21 inch **flat panel** color monitor with minimum SVGA resolution of 1280 by 1024 pixels, and true colors.
 - i. 56,000 bps V.34 telephone modem with hardware based V.42 data compression, which will allow future remote communication access to the entire ECMS.
 - j. Sound card with powered speakers.
 - k. Full upper and lower case ASCII keyboard, numeric keypad, cursor control keypad and a minimum of 12 programmable function keys.
 - l. 2 button mouse-optical.
 - m. USB ports for connection to printers.
 - n. RS-232 port.
 - o. 10/100 Mbps ETHERNET communications port for communication with the ECMS.
 2. The personal computer shall function as a primary operator station complete with mouse, keyboard and color monitor. The operator workstation shall provide total keyboard-less operation as the primary operator interface.
 3. A color laser printer with 19 pages per minute minimum print speed, minimum 32 megabytes of RAM, and 500 sheet paper tray.
- C. Software:
1. Software shall operate in multitasking operating system which provides operator full access and control of the ECMS; Access to software shall be password protected and require a unique user ID with established user access control lists. The operating system for the OWS shall be Microsoft Windows XP PRO, latest available version.

CALIFORNIA ARMY NATIONAL GUARD

LANCASTER READINESS CENTER LANCASTER, CALIFORNIA

Contract No. W91238-04-F-0064
ARNG PROJECT No. 060297
SPECIFICATION No. 1406



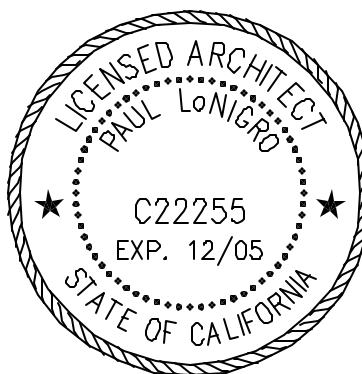
BID OPTIONAL ITEMS (BOI) LIST

- BOI #1 - RIGID (CONCRETE) PAVING IN LIEU OF FLEXIBLE (ASPHALT CONCRETE) - PAVING IN GOV PARKING AREA
- BOI #2 - LANDSCAPING
- BOI #3 - UNHEATED STORAGE BUILDING
- BOI #4 - COVERED WASH PLATFORM
- BOI #5 - FUEL STORAGE SYSTEM
- BOI #6 - MARKERBOARDS/ TACKBOARDS/ PROJECTION SCREENS
- BOI #7 - FOLDING PARTITIONS
- BOI #8 - LOCKERS AND BENCHES
- BOI #9 - FOOD SERVICE EQUIPMENT (NON-FIXED)
- BOI #10 - AIR COMPRESSOR
- BOI #11 - EMERGENCY GENERATOR (E/G)
- BOI #12 - DISPLAY CASE, MONUMENT SIGN, EPOXY FLOORING
- BOI #13 - FIXED KITCHEN EQUIPMENT
- BOI #14 - ASPHALT PAVEMENT IN GOVERNMENT PARKING AREA

NIC ITEMS:

- A - SYSTEMS FURNITURE
- B - FURNISHINGS
- C - BREAK ROOM EQUIPMENT
- 1 - MICROWAVE
- 2 - REFRIGERATORS
- 3 - VENDING MACHINES

Seal:



Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:

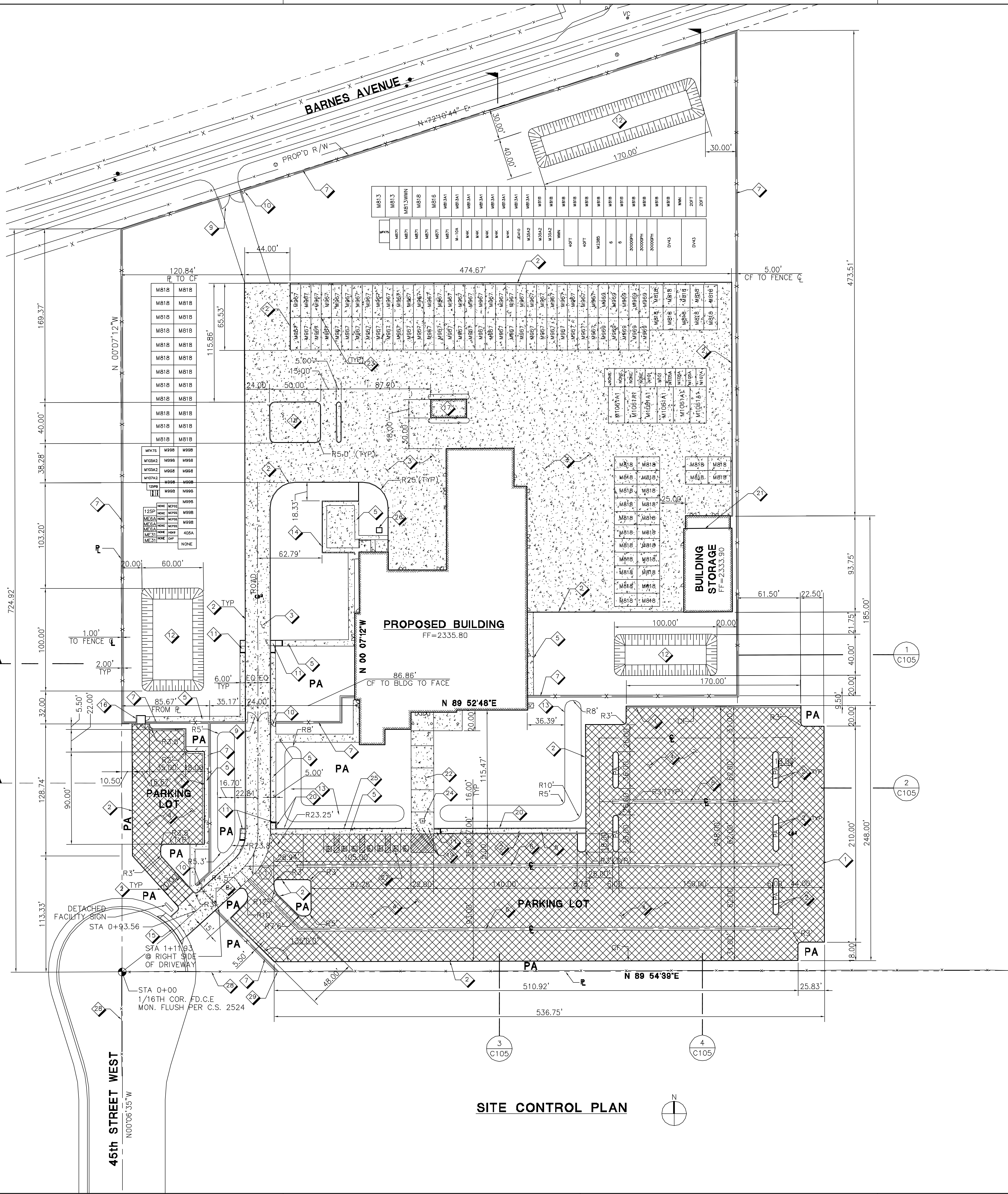
Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

**COVER SHEET,
VICINITY AND
LOCATION MAPS**

Designed By: RB
Drawn By: JC
Checked By: SD
Drawing No. T000

MODIFIED FOR SITE ADAPTATION AT LANCASTER READINESS CENTER		DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA
APPROVAL, RECOMMENDED:	APPROVED:	DATE:
CHIEF, MILITARY PROJECTS BRANCH PREPARED UNDER THE DIRECTION OF	CHIEF, ENGINEERING DIVISION	
COL, CORPS OF ENGINEERS, U.S.A.		DISTRICT ENGINEER

USER NAME: Alee
PLOT DATE: 08/30/2004 - 4:06PM
FILENAME: P:\F1W15401\700000\700000\Files Received\VCA 083004\Lancaster 100% CD.ssm 083004\1521C102.dwg



CONSTRUCTION NOTES

- 1 CONCRETE CURB AND GUTTER PER DETAIL 2 ON SHEET C106.
- 2 6" CONCRETE CURB PER DETAIL 1 ON SHEET C106.
- 3 CONCRETE PAVEMENT PER DETAIL 5 ON SHEET C106 (BOI #1).
- 4 POV ASPHALT PAVEMENT PER DETAIL 3 ON SHEET C106.
- 5 CONCRETE PAVING PER DETAIL 8 ON SHEET C106.
- 6 CONCRETE V-GUTTER PER DETAIL 7 ON SHEET C106.
- 7 CHAINLINK SECURITY FENCE PER DETAIL 1 ON SHEET C107 PROVIDE CONC. MOW STRIP PER DETAIL 9 ON SHT. C106.
- 8 VEHICULAR GATE (SLIDING TYPE) PER DETAIL 1 ON SHEET C111.
- 9 CHAINLINK VEHICULAR GATE (SWING TYPE) PER DETAIL 1 ON SHEET C107.
- 10 CHAINLINK PEDESTRIAN GATE PER DETAIL 7 ON SHEET C107.
- 11 HANDICAPPED RAMP, PER DETAIL 1 ON SHEET C110.
- 12 SETTLING BASIN PER DETAIL 3 ON SHT. C107.
- 13 EARTH BERM, 3' HIGH SEE DETAIL 5 ON SHEET C109.
- 14 EQUIPMENT PAD ENCLOSURE SEE ARCHITECTURAL DRAWINGS.
- 15 CONCRETE DRIVEWAY APWA STANDARD PLAN 110-1.
- 16 REFUSE ENCLOSURE, SEE ARCHITECTURAL DRAWINGS.
- 17 COVERED WASH PLATFORM. SEE STRUCTURAL DRAWINGS AND DETAIL 2 ON SHEET C110 (BOI #4).
- 18 FUELING STATION FACILITY, SEE DETAIL 1 ON SHEET C112 (BOI #5).
- 19 BOLLARD PER DETAIL 2 ON SHEET C107 SEE ARCHITECTURAL DRAWINGS FOR HORIZONTAL DIMENSIONS.
- 20 CONCRETE CURB (o=12") PER DETAIL 1 ON SHEET C106.
- 21 UNHEATED STORAGE BUILDING (BOI #3).
- 22 COLORED CONCRETE SIDEWALK, SEE ARCHITECTURAL DRAWINGS.
- 23 FOR LIGHT POLE LOCATIONS, SEE ELECTRICAL DRAWINGS.
- 24 FLAGPOLE FOUNDATION SEE DETAIL 3 ON SHEET C109.
- 25 HANDICAP SIGNS, SEE ARCHITECTURAL DRAWINGS FOR HORIZONTAL DIMENSIONS.
- 26 62"x 62"x4' DEEP UTILITY VAULT, USE BROOKS PRODUCTS CATALOG # 766 PRECAST METER VAULT OR APPROVED EQUAL.
- 27 HANDICAP PARKING, SEE DETAIL 4.5 & 6 SHEET C107.
- 28 EXISTING FENCE TO BE REMOVED.
- 29 CONNECT TO EXISTING FENCE.

SURVEY NOTES:

1. BASIS OF BEARING :
CALIFORNIA COORDINATE SYSTEM, ZONE 5, AS ESTABLISHED BY THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS FROM THE CALIFORNIA HPGN-D NETWORK DATED MARCH 1997.
2. BENCHMARK:
N: 2091046.6001 (FT)
E: 6497606.9776 (FT)
FOUND CHISEL "+EASTERLY RIM SEWER MANHOLE PER PWFB 3822, PAGES 47,48. ELEVATION=2335.285 COUNTY OF LOS ANGELES.
3. TOPOGRAPHICAL SURVEY WAS PREPARED BY AMERICAN LAND SURVEYS (GARY CREASON 562-402-0486) PROJECT NO. GPC88911 DATED MAY 12, 2004.
4. LOS ANGELES COUNTY IS CURRENTLY DESIGNING & DEVELOPING THE SURROUNDING UTILITY AND STREET IMPROVEMENT. THIS SURVEY UTILIZED THE SAME HORIZONTAL AND VERTICAL GPS CONTROL ESTABLISH BY L.A. COUNTY FOR DESIGN & DEVELOPMENT PURPOSES.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE DWG. C101.
2. ALL SITE IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO WESTERLY PROPERTY LINES.
3. ALL PARKING STALL ISLAND RETURNS ARE 3 FOOT RADII UNLESS OTHERWISE NOTED.
4. ALL CURB FACE HEIGHTS ARE 6 INCHES UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CURB FACE, CL, PROPERTY LINE OR BUILDING CONCRETE FACE.

CURVE DATA					
MARK	R	Δ	L	T	REMARKS
1	46.60'	42°01'48"	39.02'	20.73'	⊙ CENTERLINE OF ROAD

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

JE JACOBS
LOS ANGELES OPERATIONS
5757 Plaza Drive, Suite 100, Cypress CA 90630
(714) 503-3400 FAX (714) 503-3999

MCA ENGINEERS, INC.
10000 Wilshire Blvd., Suite 1000, Los Angeles, CA 90024
Tel. 310.728.8000 Fax. 310.728.8040

Seal:

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No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
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LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:
0 40' 80' 120'
SCALE: 1"=40'

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

SITE CONTROL PLAN

Designed By: AA
Drawn By: DKB
Checked By: VCA
Drawing No.:
C102

AM-02

Scale: 0 40' 80' 120'

SCALE: 1"=40'

Designed By: AA	Drawing No.
Drawn By: DKB	C103
Checked By: VCA	

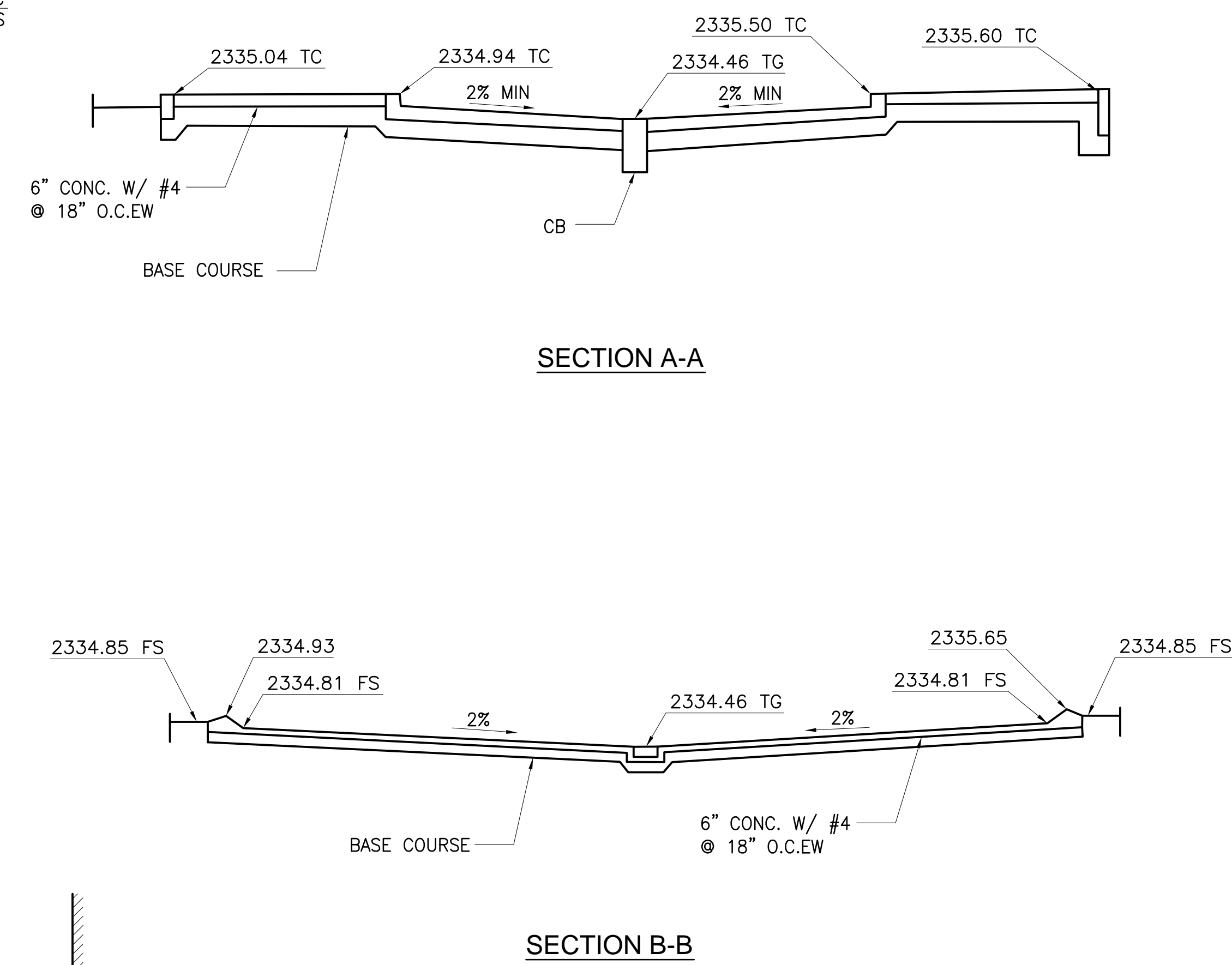
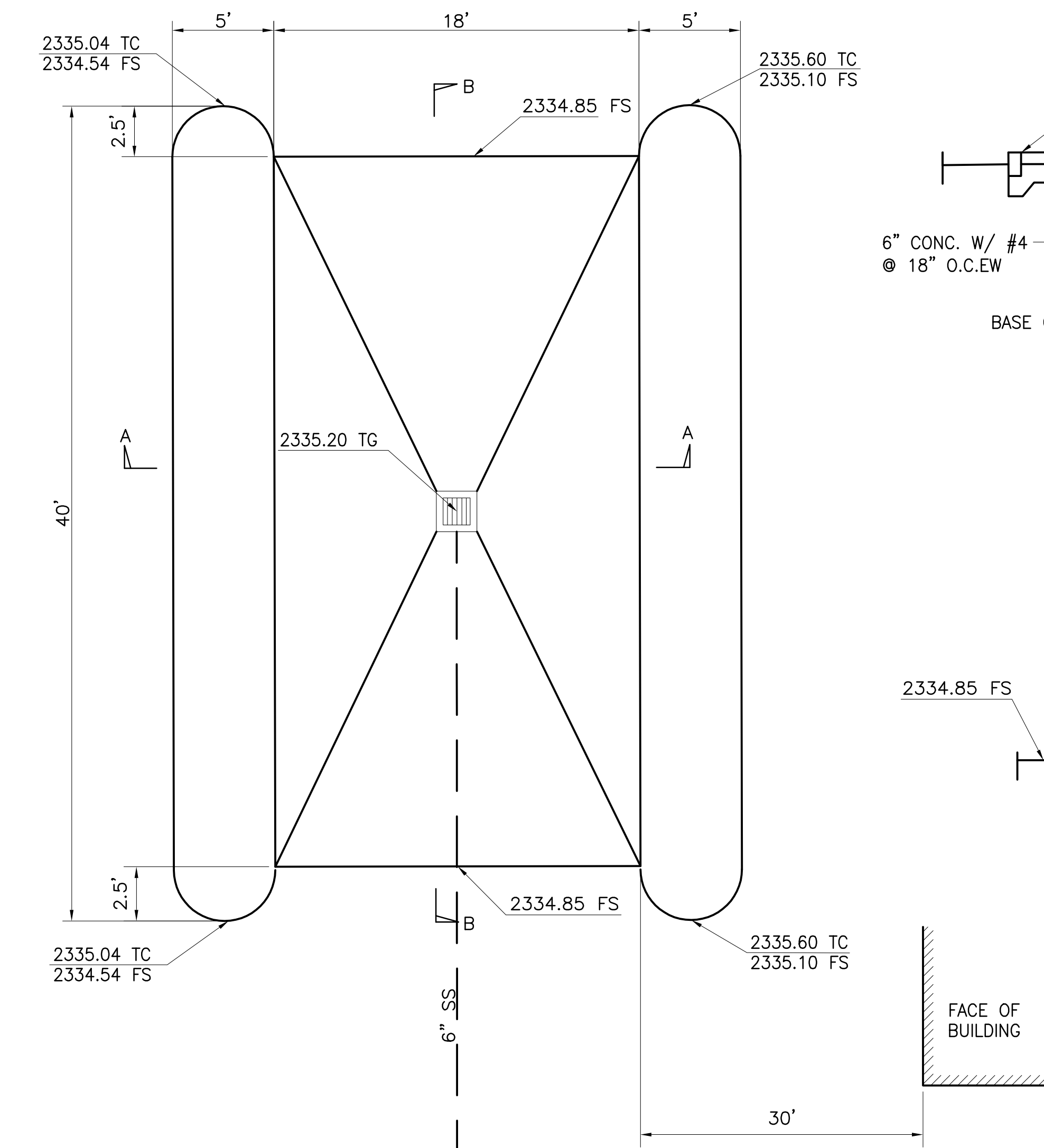
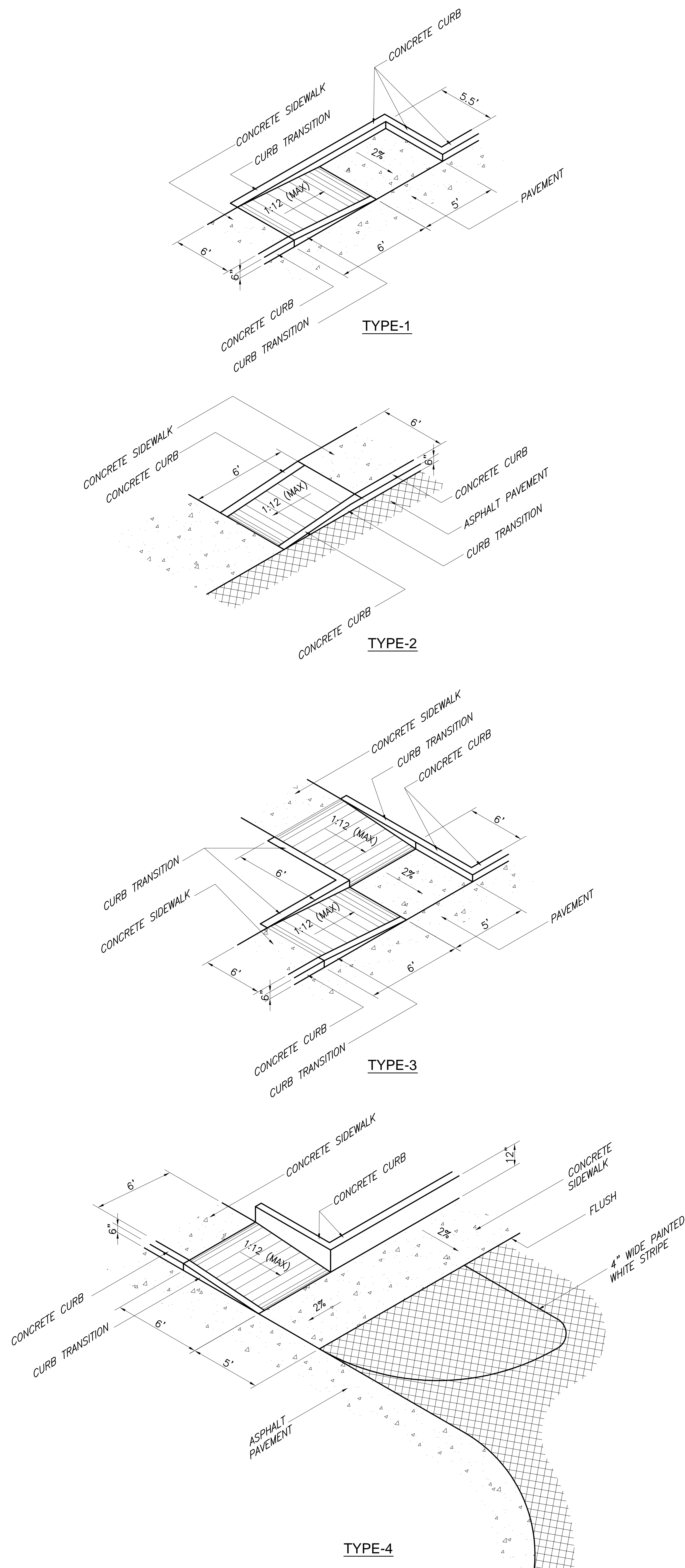
1. ELEVATIONS SHOWN ON DRAWINGS ARE TO FEET ABOVE SEA LEVEL.
2. CONTRACTOR SHALL KEEP ALL AREAS WITHIN THE WORK SITE CLEAN AND FREE OF DIRT AND DUST TO THE SATISFACTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE. CONTRACTOR SHALL PROVIDE EROSION CONTROL AS REQUIRED BY THE CONTRACTING OFFICER'S REPRESENTATIVE OR LOCAL AGENCY HAVING JURISDICTION. CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY GRADING AND OTHER CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE.
3. ALL EXISTING PIPES AND ELECTRICAL CONDUIT OR DUCTBANKS THAT ARE EXPOSED BY EXCAVATIONS SHALL BE SUPPORTED. BACKFILL UNDER PIPES AND ELECTRICAL CONDUITS OR DUCTBANKS SHALL BE FILLED WITH COMPACTED GRANULAR MATERIAL TO THE UNDERSIDE OF THE PIPE OR DUCTBANK AND FOR 3 FEET ON EITHER SIDE.
4. ALL ELEVATIONS SHOWN ARE TO THE TOP OF PAVEMENT, TOP OF CURB, CURB FLOWLINE, PIPE INVERT, TOP OF PIPE OR FINISHED SURFACE. CONTRACTOR MUST CONSIDER PAVEMENT AND BASE THICKNESS TO DETERMINE SUBGRADE ELEVATIONS WHERE APPLICABLE. ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO THE CONTROL POINTS AND LINES SHOWN ON THE SITE CONTROL PLAN.
5. ALL GRADING AND GEOTECHNICAL WORK SHALL CONFORM WITH CHAPTER 33 CALIFORNIA BUILDING CODE WITH APPLICABLE AMENDMENTS TO THESE DRAWINGS AND SPECIFICATIONS. GEOTECHNICAL REPORTS ARE AVAILABLE FOR REVIEW AT THE CONTRACTING OFFICE AND SHALL BE PART OF THE BID DOCUMENTS.
6. ANY EXISTING OFF-SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY AND APPROVED BY THE APPROPRIATE PUBLIC AGENCY OR UTILITY AT NO ADDITIONAL COST TO THE GOVERNMENT.
7. CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE SHOWN ON THE DRAWINGS. FILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND MUST BE APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE WHEN COMPACTION TESTS ARE NEEDED. IF ANY OF THE COMPACTION TESTS FAIL, THE FOLLOW-UP SOILS TEST WILL BE AT THE CONTRACTOR'S EXPENSE.
9. NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE OF ANY EXISTING UNRECORDED UTILITIES ENCOUNTERED IN THE FIELD NOT SHOWN ON THE DRAWINGS.
10. STAKE AND FLAG LOCATIONS OF EXISTING UTILITIES BEFORE ROUGH GRADING BEGINS.
11. STOCKPILE TOPSOIL IN ONSITE AREA DESIGNATED BY THE CONTRACTING OFFICER'S REPRESENTATIVE. DO NOT STOCKPILE TO A DEPTH EXCEEDING 6 FEET. PROTECT FROM EROSION.
12. ALL LABOR, MACHINERY, CONSTRUCTION EQUIPMENT, AND APPLIANCES USED IN THE SITE WORK OF THIS PROJECT SHALL BE MAINTAINED IN PROPER WORKING ORDER.
13. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF BASE.
14. FILL MATERIAL SHALL BE OBTAINED FROM A SOURCE APPROVED BY THE CONTRACTING OFFICER. ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED TO 95% RELATIVE DENSITY PER ASTM D1557.

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE DWG. C101.



AREA=11.74 ACRES
CUT=200.00 CU. YDS.
FILL=23,800.00 CU. YDS.
OVEREXCAVATION= 12,963 CU. YDS.

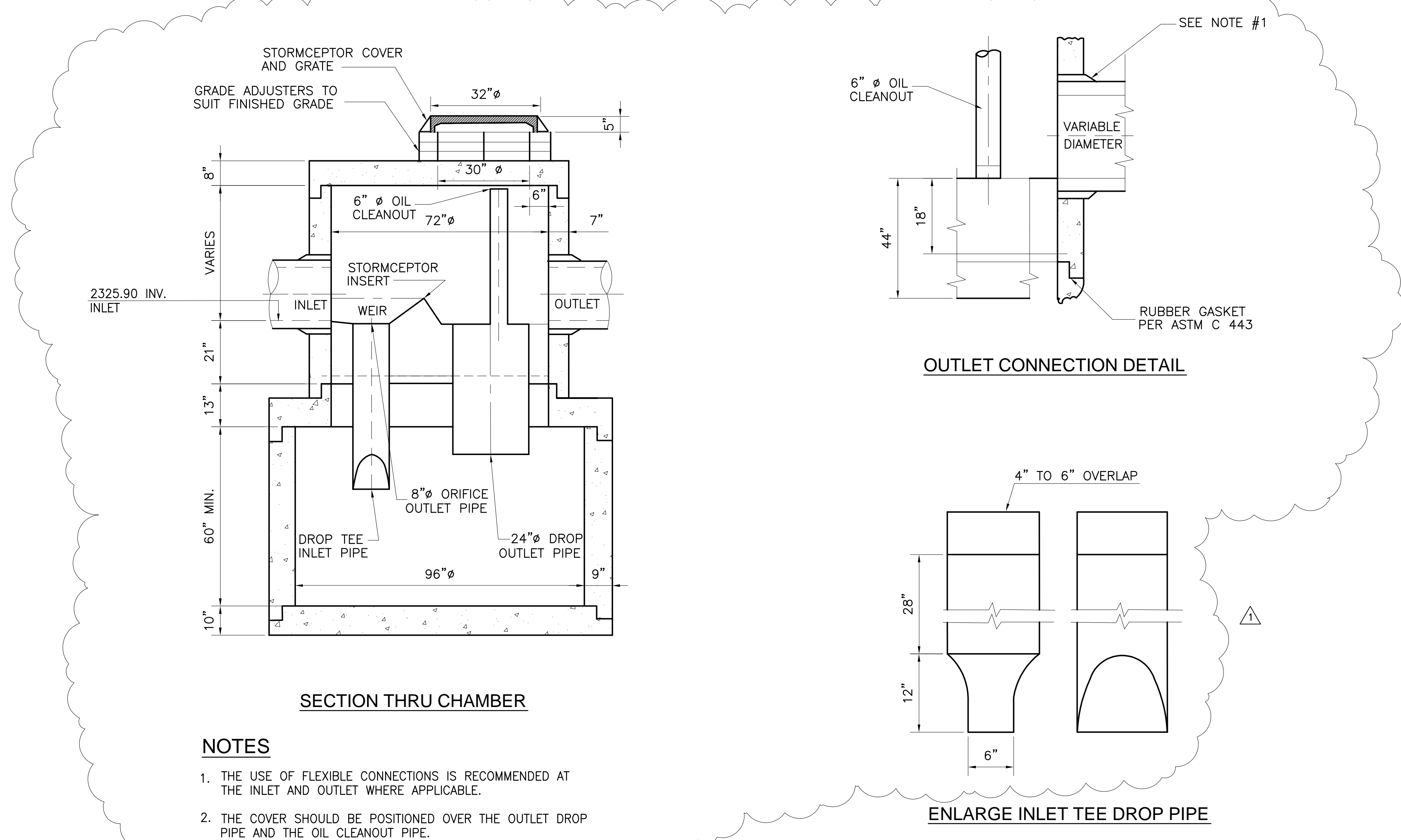
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VEHICLE WASH PLATFORM AND
FUEL TRUCK CONTAINMENT DETAIL
NO SCALE

3
C110

2 COVERED WASH PLATFORM DETAIL
SCALE: NOT TO SCALE



3 OIL/WATER SEPERATOR (2400 GALLON PRECAST CONCRETE) DETAIL
SCALE: NOT TO SCALE

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

Seal:

Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
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LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

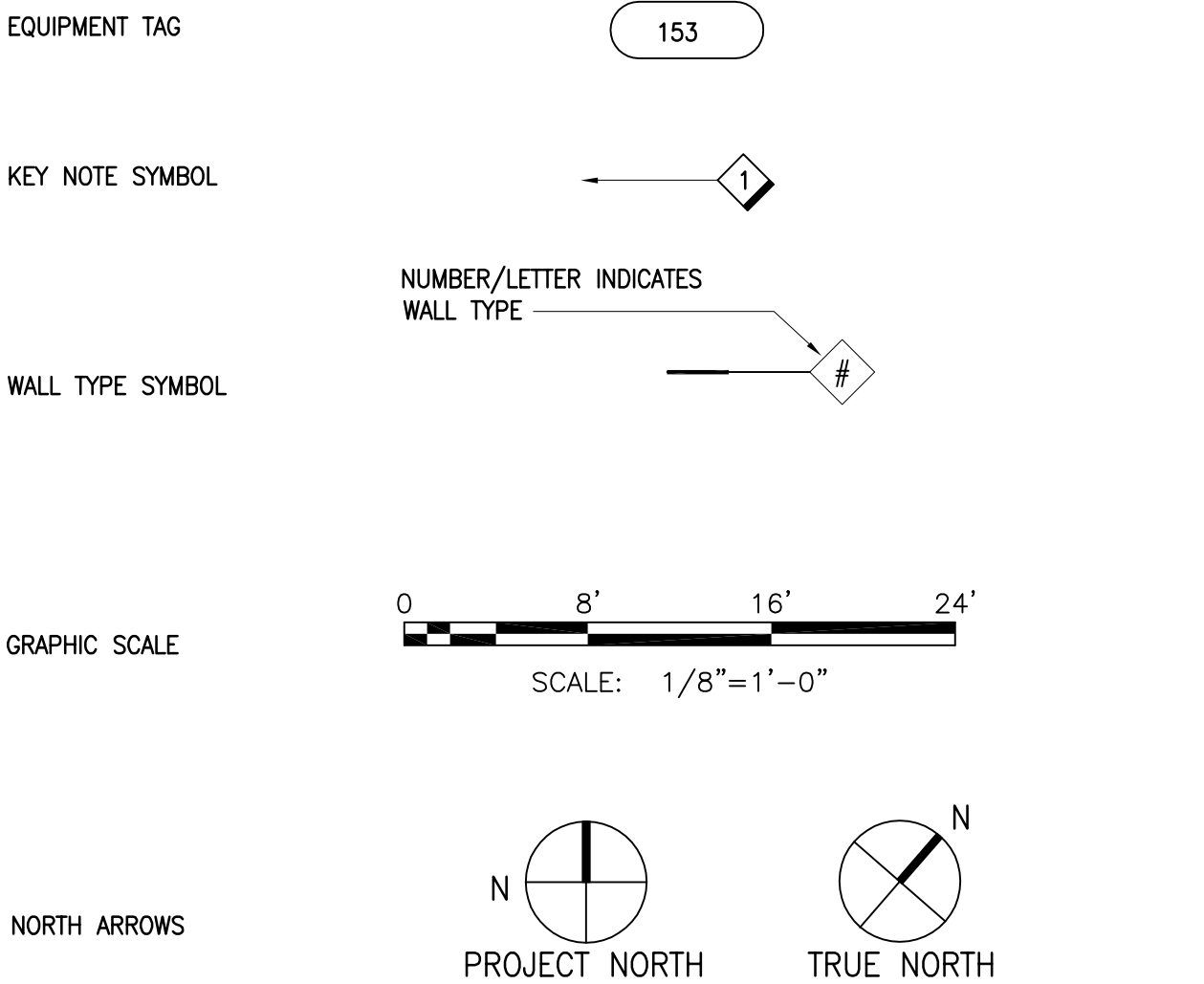
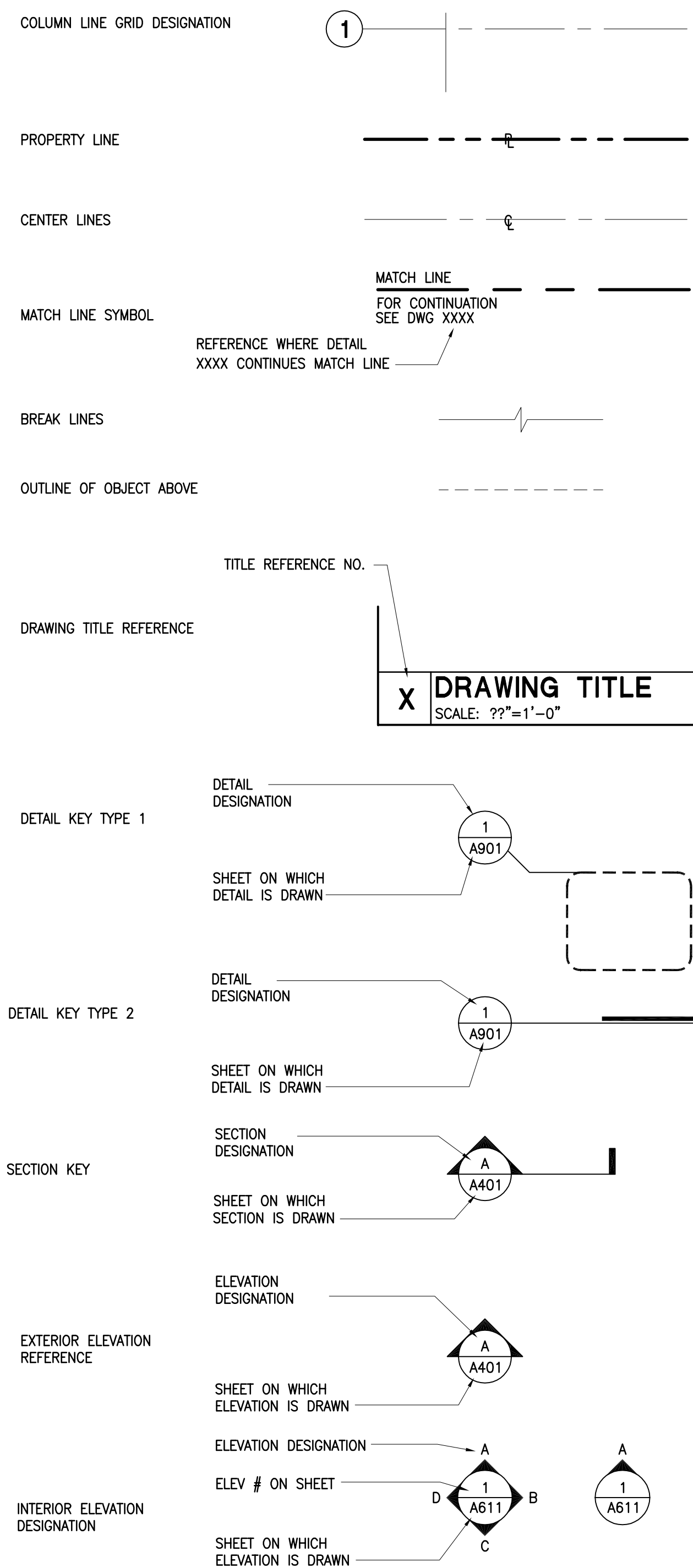
Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

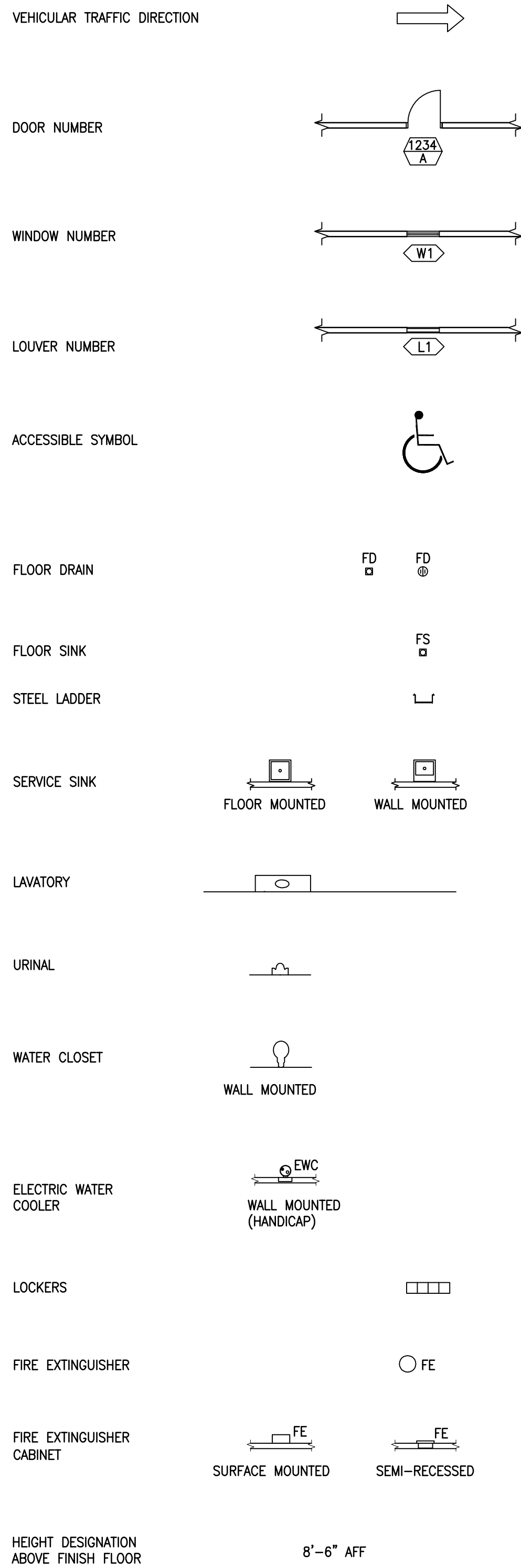
MISCELLANEOUS
DETAILS

Designed By: AA
Drawn By: DKB
Checked By: VCA

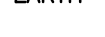
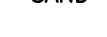
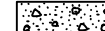
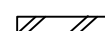



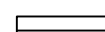
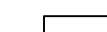
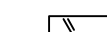



Drawing No.
C110



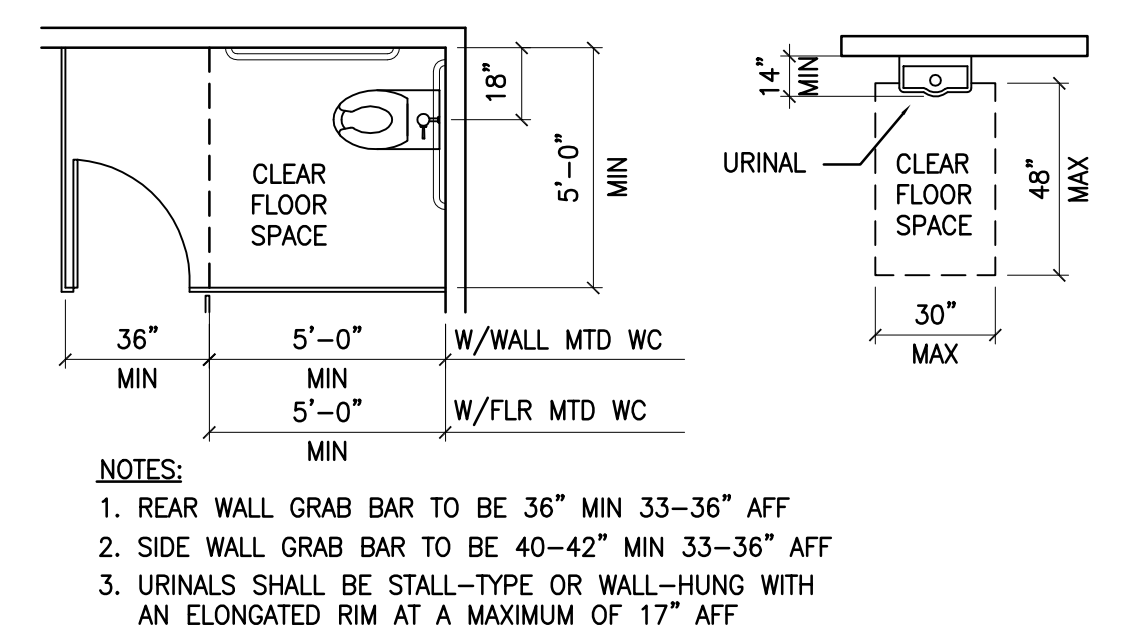
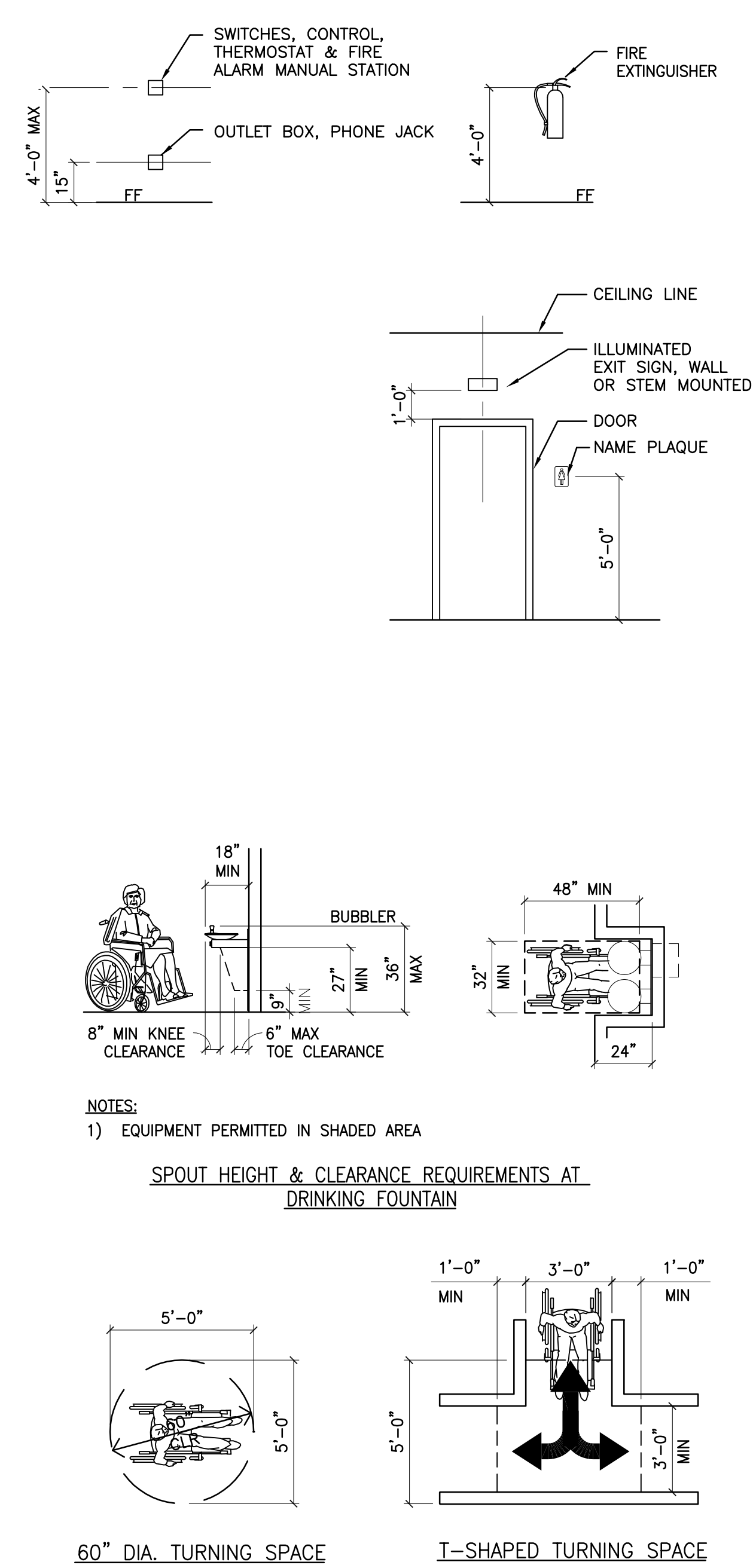
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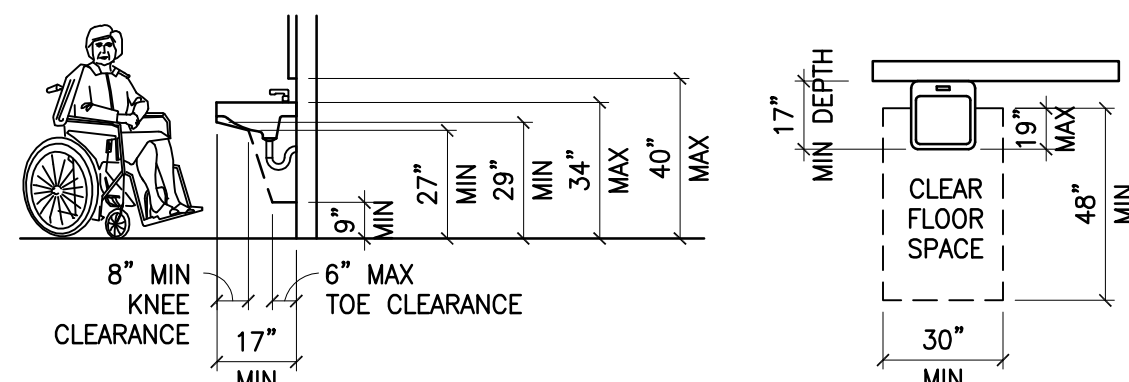
4	SYMBOLS SCALE: NONE
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EARTH, ETC			
	EARTH	SAND	
CONCRETE, ETC			
	CONCRETE		
METALS			
	STEEL	ALUMINUM	I L STRUCT ST
GYPSUM			
GLASS			
	LG SCALE	SM SCALE	ELEV
INSULATION			
	BATT OR LOOSE	RIGID	
ACOUSTIC WALL PANEL			

5	MATERIALS SCALE: NONE
---	---------------------------------



STANDARD STALL (END OF ROW) & URINAL REQUIREMENTS



- NOTES:
1. BOTTOM OF PANEL SHOULD BE AS HIGH AS POSSIBLE AND STILL CONCEAL AND PROTECT PIPES.
 2. PLACE LAVATORY BOWL AS FAR FORWARD AS POSSIBLE AND CUT OUT PIPE PROTECTION PANEL AROUND BOWL.

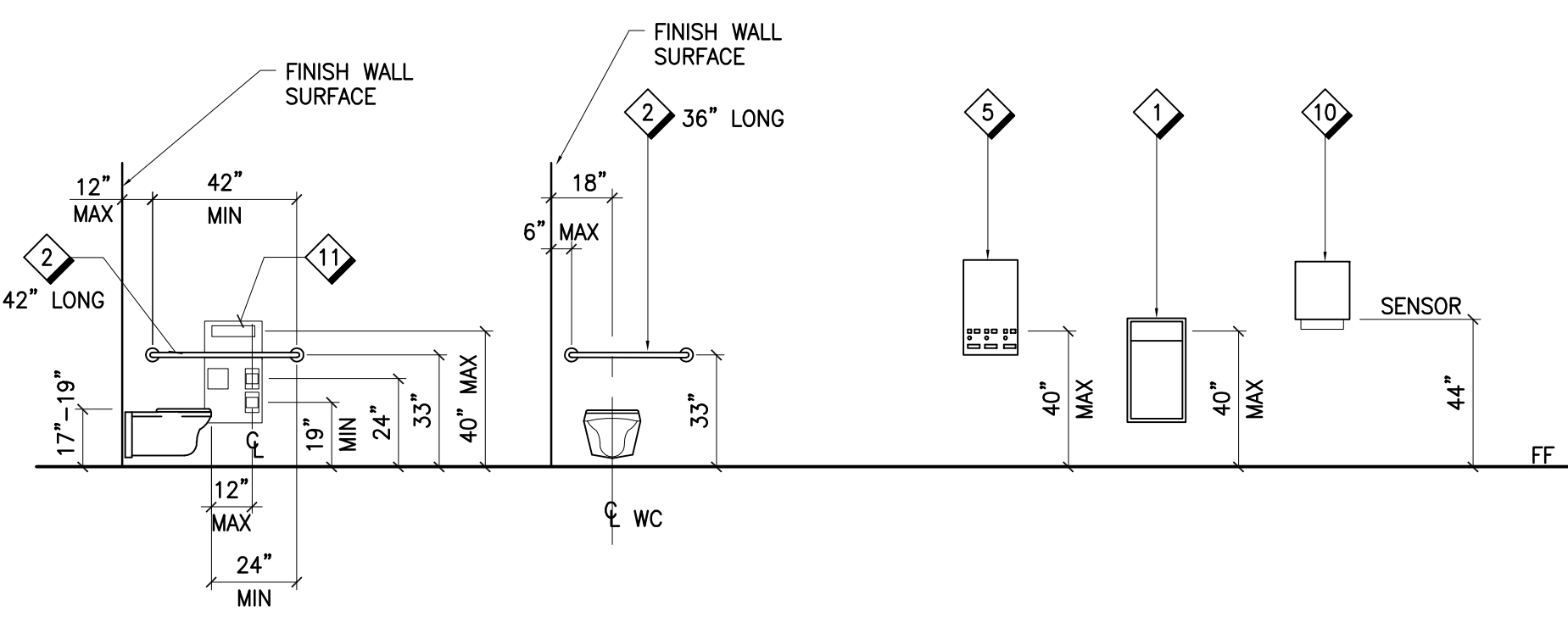
CLEARANCE REQUIREMENTS & PROTECTIVE PANEL AT LAVATORY

3 CLEARANCES/HEIGHTS

% @ #	PERCENT AND AT CENTER LINE POUND, NUMBER	E, EXIST EA E/G EL EL ELEV ELEC ENCL EQ EQUIP EXH EXP EXTERIOR ELECTRIC WATER COOLER EP	EXIST EACH EMERGENCY GENERATOR EXPANSION JOINT ELEVATION/ ELEVATOR ELECTRICAL ENCLOSURE EQUAL EQUIPMENT EXHAUST EXPANSION, EXPOSED EXTERIOR ELECTRIC WATER COOLER EDGE OF PAVEMENT	JAN JST JT	JANITOR JOINT	SA SEB SBS SC SCH SD SHT SM SML SM SL SL SPEC(S) SQ STA STL STD STOR STRUC STSS SSTL SUSP SYS SWBD SYM	SUPPLY AIR SECURITY BOLT STYRENE-BUTADIENE-STYRENE SOLID CORE SCHEDULE SINK, SOUTH STORM DRAIN SECTION SHEET SMALL METAL SIMILAR SLIDING SCORE LINE SPECIFICATION(S) SQUARE STATION STEEL STL STANDARD STORAGE STRUCTURAL, STRUCTURE SERVICE SINK, SMOKE SEAL STAINLESS STEEL SUSPENDED SYSTEM SWITCHBOARD SYMMETRICAL
A AB AC A/C ACH ACUS ACST AD ADA/ADAG AFF AL ALS APPROX ARCH ARWG AV AWP	AUTOMATIC ANCHOR BOLT ASPHALT CONCRETE AIR CONDITIONING ALUMINUM COMPOSITE MATERIAL ACOUSTICAL ACOUSTICAL SUSPENDED TILE AREA DRAIN AMERICANS WITH DISABILITIES ACT ADJUSTABLE, ADJUNCT ABOVE FINISH FLOOR ALUMINUM ASSISTIVE LISTENING SYSTEM APPROXIMATE ARCHITECTURAL ARMY NATIONAL GUARD AUDIO VISUAL ACOUSTICAL WALL PANEL	EX EA E/G EL EL ELEV ELEC ENCL EQ EQUIP EXH EXP EXTERIOR ELECTRIC WATER COOLER EP	EXIST EACH EMERGENCY GENERATOR EXPANSION JOINT ELEVATION/ ELEVATOR ELECTRICAL ENCLOSURE EQUAL EQUIPMENT EXHAUST EXPANSION, EXPOSED EXTERIOR ELECTRIC WATER COOLER EDGE OF PAVEMENT	JAN JST JT	JANITOR JOINT	SA SEB SBS SC SCH SD SHT SM SML SM SL SL SPEC(S) SQ STA STL STD STOR STRUC STSS SSTL SUSP SYS SWBD SYM	SUPPLY AIR SECURITY BOLT STYRENE-BUTADIENE-STYRENE SOLID CORE SCHEDULE SINK, SOUTH STORM DRAIN SECTION SHEET SMALL METAL SIMILAR SLIDING SCORE LINE SPECIFICATION(S) SQUARE STATION STEEL STL STANDARD STORAGE STRUCTURAL, STRUCTURE SERVICE SINK, SMOKE SEAL STAINLESS STEEL SUSPENDED SYSTEM SWITCHBOARD SYMMETRICAL
BD BLK BLKG BLDG(S) BM BO BOI BOT BR	BOARD BLACK BLOCKING BUILDING(S) BEAM BOTTOM BOI BOT BRONZE	FL FLR FLG FLO FNC FRAG FRP FT FTG(S) FURR FS	FLAM FLOOR, FLR FLOOR FLOOR FLASHING FACE OF CONCRETE FACE OF STUD FRAG FRP FT FTG(S) FURR FS	(N), N NOM NOM NO NRP NTS	NORTH, NEW NOMINAL NOT IN CONTRACT NUMBER NON-REMOVABLE PIN NOT TO SCALE	T TBA TBL T.O. T.O.C.	TRANSFORMER TREAD TACKBOARD, TOWEL BAR, TOILET & BATH ROOM ACCESSORY TABLE TOP OF CONCRETE, TOP OF CURB, TOP OF CATCH BASIN
C CARNG CAB,CABT CB CB CEM CJ CL CLSRM CLR CLG(S) CNTR CO COL CONC CONST CONJ CONT CONTR COR CSK	CHANNEL CHANGING ARMY NATIONAL GUARD CABINET CATCH BASIN CALIFORNIA BUILDING CODE CEMENT CONTROL JOINT CHAIN LINK CLASS ROOM CLEAR CEILING(S) CENTER CLEAN OUT COLUMN CONCRETE CONSTRUCTION CONNECTION CONTINUOUS CONTROL CONTRACTING OFFICER REPRESENTATIVE CERAMIC TILE COUNTERSUNK	FR FSR FO FOF GALV GA GB GBX GLG(S) G GC GO GOV GR GROUND GS GYP BD/CWB	FIRE RATED FIRE SPRINKLER RISER FACE OF FACE OF FINISH GALVANIZED GAUGE GYPSUM BOARD, GRADE BREAK GYPSUM BOARD TYPE "X" GALVANIZED IRON GENERAL CONTRACTOR COL GOVERNMENT OWNED VEHICLES GRADE GROUND GALVANIZED STEEL GYPSUM BOARD	OC OO OH OPNG OPPOSITE	ON CENTER OUTSIDE DIAMETER, OUTSIDE DIMENSION, OVERFLOW DRAIN OVERHEAD OPENING OPPOSITE	TEL TEMP TER TG THK THP TPD TV TOW TYP TJ TW	TELEPHONE TEMPERED TERRAZZO TOP OF GRADE THICK TOP OF PARAPET TOILET PAPER DISPENSER TELEVISION TOP OF WALL TYPICAL TOOL JOINT TREAD WIDTH
DF DEPT DET, DTL(S) DIA DIM DN DO DOR DWC(S) DWR	DRINKING FOUNTAIN DOUBLE DEPARTMENT DETAIL(S) DIAMETER, ROUND DIM DOWN DOOR OPENING DOOR DRAWING(S) DRAWER	HDR HDW HGT, HT HM HR HORZ H H HW INV ICBO ID IN INFO INSUL INT IT INCL	HOSE BIB HANDICAP HOLLOW CORE HANDICAP COMPLIANT HEADER HARDWARE HEIGHT HOLLOW METAL HORIZONTAL HOUR HIGH POINT HOT WATER INVERT INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, INSIDE DIMENSION, INSIDE DIAMETER INCHES INFORMATION INSULATION INTERIOR IT INCL	PR PT PTD PMT QT RA RAD RB RC RC ROOF REFRIG REF REFR REFRQ RH R RESIL RM RND ROW	PAIR PAINT PAINTED PAVEMENT QUARRY TILE RISER, RADIUS RETURN AIR RADIUS RUBBER BASE READINESS CENTER REFLECTED CEILING PLAN ROOF DRAIN REFRIGERATION, REFRIGERATOR REFERENCE REINFORCED RELOCATE REQUIRED ROUND HEAD ROUGH OPENING RESILIENT ROOM ROUND RIGHT OF WAY	VCY VERT VIF W W/ WC WD WF WDC(S) WH WIC WP WR WROB WS WT WNM	VINYL COMPOSITION TILE VERTICAL VERTICAL IN FIELD WEST, WIDTH WATER CLOSET WINDOW W/ FLANGE WOOD(S) WATER HEATER WOODWORK INSTITUTE OF CALIFORNIA WEATHER-PROOF, WATER-PROOF WATER RESISTANT WATER RESISTANT GYP WALL BD WEATHER-SEAL WEIGHT WELDED WIRE MESH

1 ABBREVIATIONS (AS APPLICABLE)

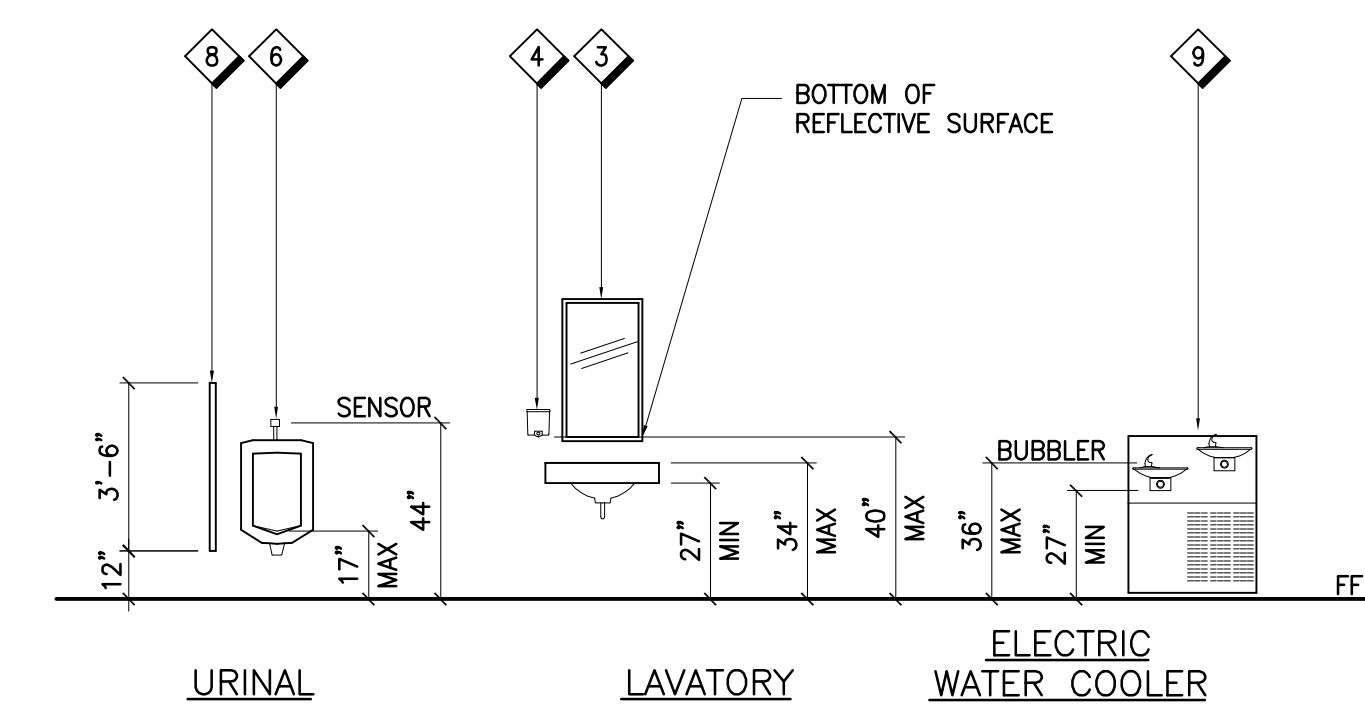
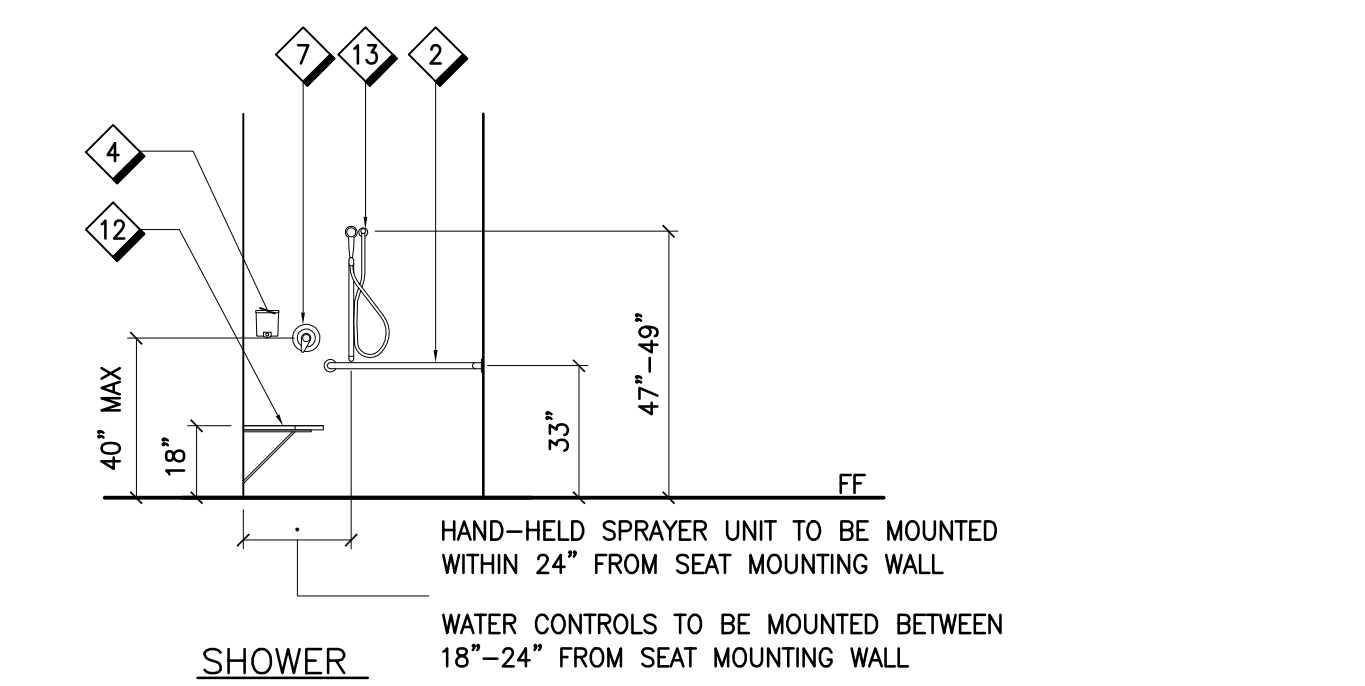
SCALE: NONE



WATER CLOSET
SIDE

WATER CLOSET
FRONT

TOILET ROOM ACCESSORIES



NOTE: ACCESSIBLE STALL DOOR OPENINGS
SHALL BE 34" CLEAR WITH DOOR OPEN

2 ACCESSIBLE FIXTURE MOUNTING HEIGHTS/LOCATIONS

TOILET ACCESSORY/FIXTURE SCHEDULE

- 1 RECESSED WASTE RECEPTACLE
- 2 STAINLESS STEEL GRAB BARS
- 3 STAINLESS STEEL CHANNEL FRAMED MIRROR
- 4 SOAP DISPENSER
- 5 SANITARY NAPKIN / TAMPON VENDOR – WALL RECESSED
- 6 URINAL
- 7 SINGLE-LEVER MIXING VALVE
- 8 URINAL SCREEN
- 9 ELECTRIC WATER COOLER
- 10 SENSOR OPERATED PAPER TOWEL DISPENSER
- 11 WALL RECESSED/PARTITION MOUNTED COMBINATION TOILET SEAT COVER DISPENSER, DUAL ROLL TISSUE DISPENSER (WITH SANITARY NAPKIN DISPOSAL – WOMEN ONLY)
- 12 FOLDING SHOWER SEAT
- 13 SHOWER SPRAY UNIT WITH FLEXIBLE HOSE MIN 60" LONG

Keyplan:

Scale:

Jacobs Project No.:	F1W15401
ARNG Project No.:	060297
Drawing Title:	

SYMBOLS AND ABBREVIATIONS

Designed By: RB	Drawing No.
Drawn By: JC	A004
Checked By: SD	

ROOM FINISH SCHEDULE

ROOM FINISH LEGEND

MATERIAL ABBREVIATIONS

ACST	ACOUSTICAL SUSPENDED TILE	GB	GYPSUM WALLBOARD (DRYWALL)
AMD	ACOUSTIC METAL DECK	GR	GALVANIZED STEEL GRATING
AWP	ACOUSTIC WALL PANEL	MET	METAL
CB	CEMENT BOARD	MIR	MIRROR
CONC	CONCRETE	MRGB	MOISTURE-RESISTANT GYPSUM BOARD
CPT	CARPET	P	PAINT
CT	CERAMIC TILE	QT	QUARRY TILE
CW	CURTAINWALL ASSEMBLY	RAF	RESILIENT ATHLETIC FLOORING
EPXY	EPOXY FLOORING	RB	RESILIENT BASE
EXP	EXPOSED STRUCTURE	RT	RESILIENT TILE
FF	FACTORY FINISHED	SAT	SUSPENDED ACOUSTIC CEILING SYSTEM
		SC	SEALED CONCRETE

NOTES:

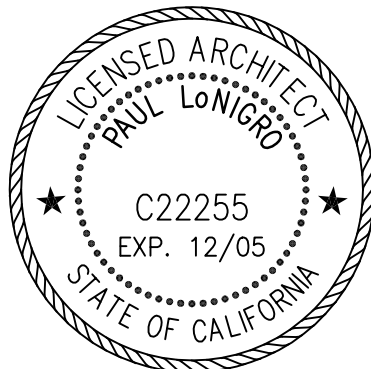
- ALL GYPSUM BOARD SHALL BE TYPE-X.
- ALL STEEL STRUCTURAL ELEMENTS BELOW 25 FEET HIGH SHALL BE COVERED WITH 1 HOUR FIRE-RATED CEMENTITIOUS FIREPROOFING.
- ALL SUSPENDED ACOUSTICAL CEILING SYSTEM SHALL BE 9'-0" ABOVE FIN. FLR., U.N.O. AS EXPOSED STRUCTURE.
- ALL TILT-UP CONCRETE PANEL WALLS SHALL BE OF INTEGRAL COLOR

REMARKS

- REFER TO INTERIOR ELEVATIONS FOR AWP LOCATIONS
- PAINT EXPOSED STEEL STRUCTURAL ELEMENTS, CONDUITS, PIPING
TO MATCH ADJACENT WALL COLOR
- CONTINUOUS RESILIENT CHAIR RAIL ON ALL WALLS OF
CLASSROOM, @ 2'-6" ABOVE FF UNLESS NOTED OTHERWISE.
ACROVYN OR APPROVED EQUAL RSE SERIES 4" RUB STRIPS,
COLOR: 875 CORDOVAN

JE[®] JACOBS
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Seal:



Revision

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LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:

Jacobs Project No.:	F1W15401
ARNG Project No.:	060297
Drawing Title:	

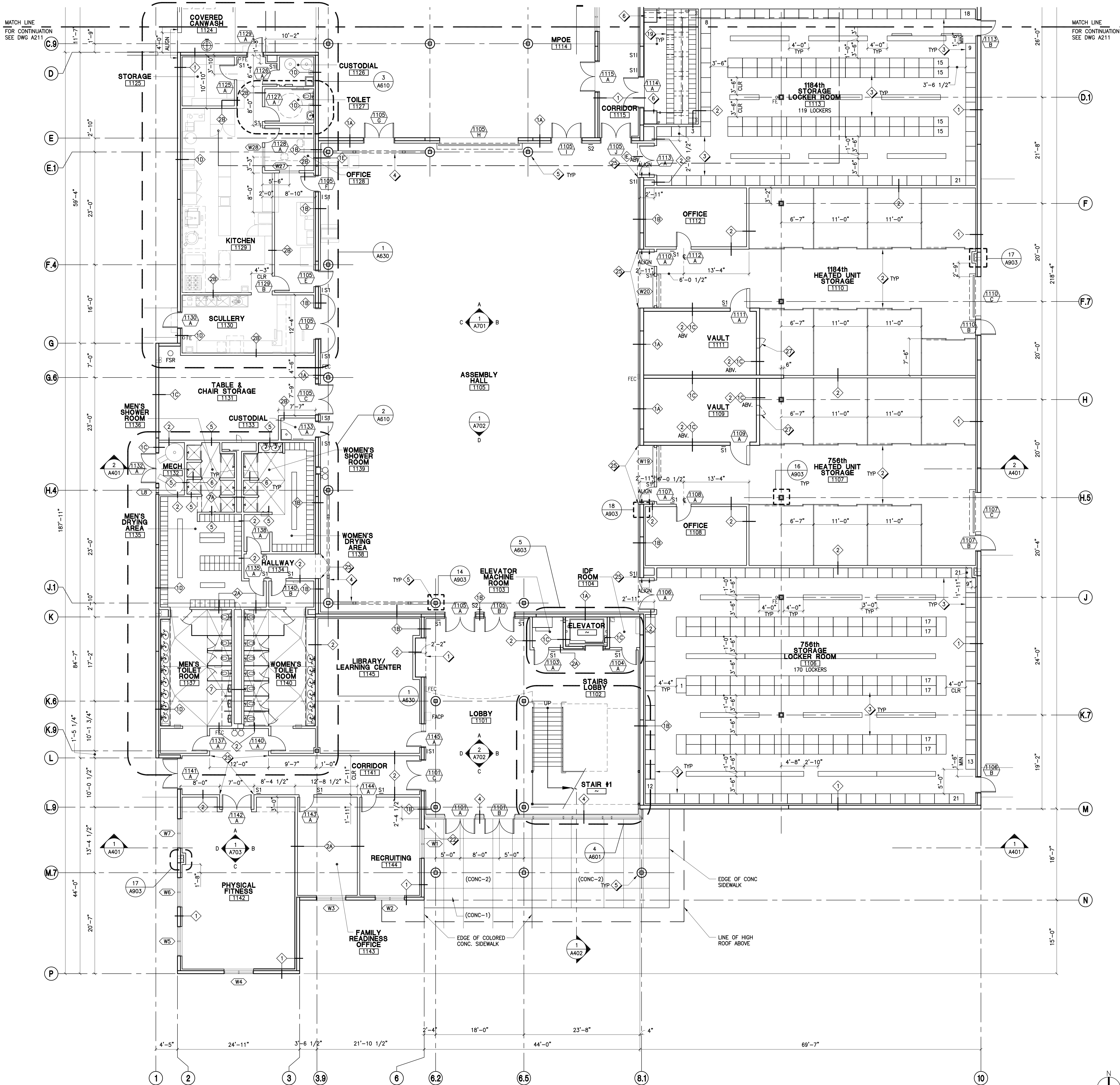
ROOM FINISH SCHEDULE

Designed By: RB	Drawing No.
Drawn By: JC	A005
Checked By: SD	

USER NAME: cdburn
PLOT DATE: 08/31/2004 - 1:45PM
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MATCH LINE
FOR CONTINUATION
SEE DWG A211

MATCH LINE
FOR CONTINUATION
SEE DWG A211



1 FIRST FLOOR PLAN - SECTOR 2

SCALE: 1/8"=1'-0"

KEYNOTES

NOT ALL KEYNOTES ARE REFERENCED
ON THIS SHEET

- 1 DISPLAY CASE
- 2 FULL HEIGHT WIRE MESH PARTITIONS
- 3 STORAGE LOCKERS AND BENCHES (BOI #8)
- 4 DIAGONAL BRACING, SEE STRUCTURAL DWGS
- 5 METAL COLUMN ENCLOSURE
- 6 CONDENSER, SEE MECHANICAL DWGS
- 7 BOILER, SEE MECHANICAL DWGS
- 8 MODULAR FURNITURE (NIC)
- 9 MARKERBOARD/TACKBOARD/PROJECTION SCREEN (BOI #6)
- 10 FOLDING PARTITION (BOI #7)
- 11 HI-LO ELECTRIC WATER COOLER
- 12 MOP SINK, SEE PLUMBING DWGS
- 13 VENDING MACHINES (NIC)
- 14 FURNISHINGS (NIC)
- 15 SBS MODIFIED BITUMINOUS MEMBRANE ROOFING SYSTEM
- 16 ROOFTOP AIR HANDLING UNIT, SEE MECHANICAL DWGS
- 17 ROOF TRAFFIC PAD
- 18 WALL-MOUNTED KEY CABINET @ 48" AFF
- 19 EQUIPMENT RACK (NIC)
- 20 MECHANICAL PUMPS, SEE MECHANICAL DWGS
- 21 WATER HEATER, SEE PLUMBING DWGS
- 22 KNOX BOX (3200 SERIES SURFACE MOUNT)
- 23 MECHANICAL STORAGE TANK, SEE MECHANICAL DWGS
- 24 FLOOR OPENING, SEE STRUCTURAL DWGS
- 25 WALL CORNERGUARDS, SEE DETAIL 13 A903
- 26 ROOF DOWNSPOUT, COLOR TO MATCH EXTERIOR WALL
- 27 ABOVE VAULT 2' X 4' ACCESS DOOR, BOTTOM OF DOOR SHALL BE AT TOP OF VAULT
- 28 WALL-MOUNTED EMERGENCY EYEWASH KIT: UNI-GUARD SINGLE 16 OZ. OR APPROVED EQUAL
- 29 WATER SOFTNER, SEE PLUMBING DWGS
- 30 ONE HOUR FIRE-RATED 2' X 4' ACCESS DOOR

LEGEND

- SW WALL SIGNAGE, SEE DWG A007
- FE FIRE EXTINGUISHER (BRACKET-MTD)
- FEC FIRE EXTINGUISHER CABINET SEE DETAIL 11 A903
- FACP FIRE ALARM CONTROL PANEL
- FSR FIRE SPRINKLER RISER
- X PARTITION TYPES, SEE DWG A008

NOTES

- THROUGH WALL PENETRATIONS INCLUDING FIRE RATED WALL, SEE DETAILS 5,6,7,8 ON DWG A903
- ALL DIMENSIONS ARE SHOWN TO FACE OF CONCRETE WALL OR TO FACE OF STUDS, UNLESS OTHERWISE NOTED AS CLEAR

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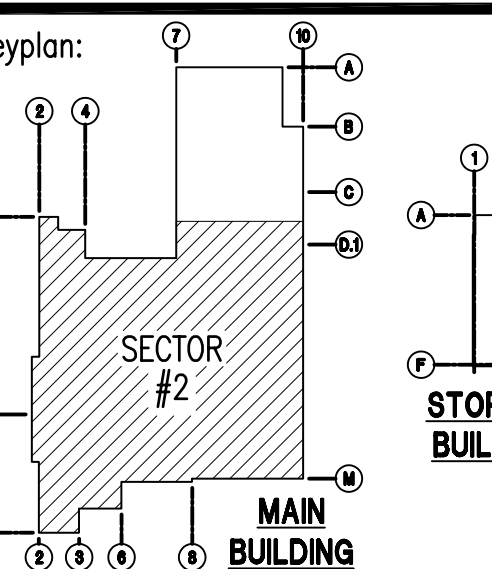
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Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

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CITY OF LANCASTER, LOS ANGELES CO. CA.



Scale:
0 8' 16' 24'
SCALE: 1/8"=1'-0"

Jacobs Project No.: F1W15401
ARNG Project No.: 060297

ENLARGED
FIRST FLOOR PLAN
SECTOR 2

Designed By: RB
Drawn By: JE
Checked By: SD
Drawing No.: A212

AM-02

STRUCTURAL GENERAL NOTES

GENERAL:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER/ARCHITECT SHALL BE NOTIFIED, IN WRITING, IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAIL ON THESE DRAWINGS. THESE NOTES SHALL BE CONSIDERED AS PART OF THE WRITTEN SPECIFICATIONS.
2. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND C.O.R. BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3. RESOLVE ANY CONFLICTS ON THE DRAWINGS WITH THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS.
4. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER "GENERAL NOTES" AND TYPICAL DETAILS.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.
7. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
8. THE CONTRACTOR SHALL REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
9. SPECIFICATIONS, CODES AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED. MATERIAL SPECIFICATIONS ARE (ASTM) LATEST EDITION, UNLESS NOTED OTHERWISE.
10. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT SHOWN OR NOTED.
- B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- C. ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT.
- D. ANCHOR BOLTS FOR MOTOR MOUNTS.
- E. SIZE AND LOCATION OF MACHINE AND EQUIPMENT BASES.
11. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS.
- B. SIZE AND LOCATION OF ALL NONBEARING PARTITIONS.
- C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
- D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS.
- E. STAIR FRAMING AND DETAILS.
- F. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
12. ALL WORK SHALL CONFORM TO THE STANDARDS OF FOLLOWING CODES: UNIFORM BUILDING CODE (UBC), 1997 EDITION WITH CALIFORNIA AMENDMENTS, WHICH MAKE UP THE CALIFORNIA CODE OF REGULATIONS TITLE 24 PART 2 REFERRED TO HERE AS THE CALIFORNIA BUILDING CODE, 2001 EDITION, OR "THE CODE," AND ANY OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THE STRUCTURAL NOTES AND SPECIFICATIONS.
13. DESIGN LIVE LOADS:
- | AREA | DESIGN LIVE LOAD | REMARKS |
|---------------------------------|------------------|---------------|
| ROOF | 20 PSF | NON-REDUCIBLE |
| OFFICE/CLASSROOMS | 50 PSF | REDUCIBLE |
| EXITS, CORRIDORS & PUBLIC AREAS | 100 PSF | NON-REDUCIBLE |
| MECHANICAL AREA | 125 PSF | NON-REDUCIBLE |
| PARTITIONS | 20 PSF | NON-REDUCIBLE |
14. WIND PRESSURE BASED ON 70 MPH, EXPOSURE C. IMPORTANCE FACTOR I=1.0

SEISMIC PARAMETERS:

THE SEISMIC PARAMETERS FOR THE DESIGN OF THE BUILDING BASED ON 2001 CBC ARE AS FOLLOW:

SEISMIC ZONE	4
SOIL PROFILE TYPE	S _D
SEISMIC ZONE FACTOR	0.4
SEISMIC COEFFICIENT, C _s	0.44
SEISMIC COEFFICIENT, C _v	0.64
IMPORTANCE FACTOR, I	1.0
NEAR SOURCE FACTOR, N _e	1.0
NEAR SOURCE FACTOR, N _v	1.1

STRUCTURAL AND MISC. STEEL:

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE NINTH EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM A 36, UNLESS OTHERWISE NOTED. STRUCTURAL W SHAPES SHALL CONFORM TO ASTM A992, GRADE 50ksi.
3. STEEL PIPES SHALL CONFORM TO ASTM A 53, TYPE E OR S, GRADE "B".
4. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A 500, GRADE "B", F_y=46 KSI.
5. MACHINE BOLTS AND ANCHOR BOLTS SHALL BE GRADE "A" CONFORMING TO ASTM A 307, UNLESS OTHERWISE NOTED.
6. NUTS FOR MACHINE BOLTS SHALL CONFORM TO ASTM A 563, HEX GRADE A.
7. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A 325 OR ASTM A490 AND SHALL BE INSTALLED PER THE REQUIREMENTS OF THE AISC SPECIFICATION FOR "STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
8. SPECIAL INSPECTION IS REQUIRED PER CBC 1701A.5.6 FOR INSTALLATION OF HIGH STRENGTH BOLTS.
9. NUTS FOR HIGH-STRENGTH BOLTS SHALL BE HEAVY HEX, GRADE C, CONFORMING TO ASTM A 563.
10. SHOP DRAWINGS FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

METAL BUILDING:

1. METAL BUILDING REGISTERED (CIVIL OR STRUCTURAL) ENGINEER TO VERIFY THE DESIGN OF THE FOUNDATIONS (BY KLT) FOR THE STORAGE BUILDING. SHOW ROOF LIVE LOADS, WIND AND EARTHQUAKE LOADS, (DESIGN) CODES, MINIMUM DEPTH OF FOOTINGS (SEE SOIL REPORT), OVER EXCAVATION, TYPE OF FILLING AND BACK FILLING.

STRUCTURAL AND MISC. STEEL: (CONTINUED)

11. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 7,000 PSI PER ASTM C 109. NON-SHRINK GROUT SHALL BE MASTER BUILDERS MASTERFLOW 713 OR 928 GROUT OR APPROVED EQUAL. GROUTING OF BASE PLATES PRIOR TO ALIGNMENT OF COLUMNS SHALL NOT BE PERMITTED.
12. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER AWS SPECIFICATION E70XX (LOW HYDROGEN ELECTRODES) WITH CHARPY V-NOTCH TOUGHNESS OF 20 FOOT POUNDS AT ZERO DEGREE FAHRENHEIT. WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS QUALIFIED UNDER THE PROCEDURES CONTAINED THEREIN. COMPLY WITH TITLE 24 SECTION 2205.10.
13. BOLT HOLES IN STEEL SHALL BE DRILLED 1/16" LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED OTHERWISE.
14. ALL STEEL EXPOSED TO WEATHER OR MOISTURE CONDITIONS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. AREAS THAT HAVE BEEN FIELD WELDED SHALL BE COATED WITH "REGALV", "GALVALLOY", OR AN APPROVED EQUAL.
15. HIGH-STRENGTH BOLTS
- A. HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED AND INSPECTED IN STRICT ACCORDANCE WITH ASTM A325. THREADS SHALL BE EXCLUDED FROM ALL SHEAR PLANES. CONTACT SURFACES OR MEMBERS TO BE BOLTED SHALL NOT BE PAINTED.
- B. ALL HIGH-STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH PARAGRAPH 5E, "TIGHTENING BY USE OF DIRECT TENSION INDICATOR" OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS AS APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS AND ENDORSED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. LOAD INDICATOR WASHERS SHALL BE USED AS THE APPROVED DIRECT TENSION INDICATORS.
16. STEEL TO BE SHOP PRIMED EXCEPT AREAS TO BE FIELD WELDED OR IN CONTACT WITH CONCRETE.
17. CEMENT SHALL CONFORM TO ASTM C 150, TYPE II, LOW ALKALI.
18. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. SUPPLIES OF AGGREGATE SHALL PROVIDE EVIDENCE THAT THE AGGREGATE IS FREE OF DELETERIOUS REACTIVITY.
19. AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330. SUPPLIES OF AGGREGATE SHALL PROVIDE EVIDENCE THAT THE AGGREGATE IS FREE OF DELETERIOUS REACTIVITY. MAXIMUM AGGREGATE SIZE IS 3/4".
20. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94, MAX WATER/CEMENTITIOUS MATERIALS RATIO BY WEIGHT SHALL BE 0.50 AND MAXIMUM SLUMP IS 4 INCHES.
21. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", EXCEPT AS MODIFIED BY THESE NOTES.
22. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
- | | 3,000 PSI (SEE NOTE #7) | 3/4" |
|--------------------------|--------------------------|--------|
| a) STRUCTURAL LT. WT. | 3,000 PSI | 1-1/2" |
| b) FOOTINGS | 3,500 PSI | 1" |
| c) SLAB ON GRADE | 4,000 PSI | 1" |
| d) WALLS & PRECAST PNL'S | 3,000 PSI (SEE DWG S300) | 1" |
| e) ALL OTHER CONCRETE | 4,500 PSI | 1" |
23. ALL STRUCTURAL LIGHTWEIGHT CONCRETE SHALL HAVE A DENSITY OF 110 PCF MINIMUM AND 115 PCF MAXIMUM.
24. ADMIXTURES SHALL COMPLY WITH ASTM A 494 AND BE TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. (CALCIUM CHLORIDE SHALL NOT BE USED).
25. NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK. EXCEPT FOR LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".
26. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 1/2" CHAMFER UNLESS OTHERWISE NOTED.
27. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, CLIPS, ORNAMENTS OR GROUNDS REQUIRED TO BE CAST INTO CONCRETE.
28. CONSTRUCTION JOINTS FOR CAST-IN-PLACE CONCRETE SLAB AND WALLS SHALL BE IN ACCORDANCE WITH ACI 301, PARAGRAPH 5.3.2.6.
29. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318, LATEST APPROVED EDITION), WITH MODIFICATIONS AS NOTED ON THE DRAWINGS OR SPECIFICATIONS.
30. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO USE. THE CONCRETE MIX DESIGN SHALL STATE THE SOURCE OF THE AGGREGATES AND SHALL INCLUDE AN AFFIDAVIT THAT THE AGGREGATE IS NOT EXPLOSIVE OR OTHERWISE CHEMICALLY DETRIMENTAL.
31. NON-SHRINK GROUT SHALL BE USED UNDER BASE PLATES AND WALL PANELS, ETC.
32. THE DESIGN MUST BE APPROVED BY THE C.O.R. PRIOR TO THE MANUFACTURER OF THE PANEL AND SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-02 CHAPTER 16 (OR LATEST EDITION).

REINFORCED CONCRETE: (CONTINUED)

16. CLEARANCE
- A. PRESERVE CLEARANCE BETWEEN BARS OF NOT LESS THAN THE NOMINAL DIAMETER OF THE BARS.
- B. IN NO CASE SHALL THE CLEAR DISTANCE BE LESS THAN 1 INCH OR LESS THAN 1-1/3 TIMES THE MAXIMUM SIZE OF AGGREGATE, WHICHEVER IS GREATER.
- C. MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
- | | 3" |
|--|-------------|
| 1. CONCRETE DEPOSITED AGAINST EARTH: | |
| 2. CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER: | |
| a. #6 THROUGH #18 BARS: | 2" |
| b. #5 BAR AND SMALLER: | 1 1/2" |
| 3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: | |
| a. SLABS, WALLS, JOISTS: | 1 1/2" |
| b. #14 THROUGH #18 BARS: | 3/4" |
| c. #11 BAR AND SMALLER: | 1 1/2" |
| d. BEAMS, COLUMNS: | |
| e. PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS: | |
| f. PLACE TEMPERATURE REINFORCING FOR SLABS ON GRADE AT 1 1/2 INCHES FROM TOP OF SURFACE. | |
| g. PRECAST WALLS | AS DETAILED |
17. ALL REINFORCING BARS, ANCHOR BOLTS, DOWELS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
18. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
19. CURING COMPOUND USED ON CONCRETE THAT IS TO RECEIVE A RESILIENT TILE FINISH SHALL BE APPROVED BY THE TILE MANUFACTURER BEFORE USE.

REINFORCING STEEL:

1. BAR REINFORCEMENT SHALL BE ASTM A 615, GRADE 40 FOR #3 AND GRADE 60 FOR #4 AND LARGER UNLESS OTHERWISE NOTED. ALL REINFORCING SHALL BE FROM IDENTIFIED STOCK WITH MILL ANALYSIS. REINFORCEMENT TO BE WELDED SHALL BE ASTM A706 UNLESS OTHERWISE NOTED.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
3. A. LAP SPLICED OF REINFORCING BARS IN CONCRETE SHALL BE CLASS B AS DEFINED IN ACI 318-05 UNLESS OTHERWISE NOTED.
- B. LAP SPLICES OF REINFORCING BARS IN MASONRY SHALL BE 48 BAR DIAMETERS OR 2'-6" MIN UNLESS NOTED OTHERWISE.
4. REINFORCING, DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION, AND ACI DETAILING MANUAL 315 (LATEST EDITION).
5. DOWELS BETWEEN FOOTING AND WALLS SHALL BE OF THE SAME GRADE, SIZE AND SPACING AS VERTICAL WALL REINFORCING, UNLESS OTHERWISE NOTED.
6. FURNISH #3 SPACE TIES AT APPROXIMATELY 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING IN PLACE UNLESS OTHERWISE NOTED.
7. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. #5 OR LARGER BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.
8. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH, WHICHEVER IS GREATER.
9. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCEMENT SHALL BE STAGGERED 4'-0" MINIMUM UNLESS NOTED OTHERWISE.
10. ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS, ETC. SHALL BE WELL SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUT. CONTRACTOR SHALL USE TEMPLATE TO INSURE ACCURATE PLACEMENT OF ANCHOR BOLTS, DOWELS, ETC.
11. WELDING OF REINFORCING BARS SHALL CONFORM TO AWS D1.4. E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 40 REBAR. E80XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REBAR. A COPY OF THE MILL TEST REPORT SHALL BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL IN CONCRETE MEMBERS. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING. WELDED REBAR SHALL BE ASTM A-706.

STEEL JOIST:

1. STEEL JOIST SHALL MEET THE REQUIREMENTS OF STEEL JOIST INSTITUTE'S "STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS". THE BOTTOM CHORD OF THE JOIST SHALL BE DESIGNED TO CARRY 100 POUND PER LINEAR FOOT OF UNIFORM LOAD AS A PART OF THE TOTAL SPECIFIED JOIST LOAD.
2. MINIMUM BRIDGING SHALL BE PROVIDED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE'S SPECIFICATIONS. BRIDGING IN EXCESS OF THE MINIMUM SHALL BE PROVIDED WHERE INDICATED ON THE DESIGN DRAWINGS.
3. UNLESS AS DETAILED ON THE STRUCTURAL DRAWINGS, POINT LOADS FROM CEILINGS, PIPES, DUCTS, LIGHTS, ELECTRICAL TRAYS, CONDUITS, SPRINKLERS, ETC. OF 100 POUNDS OR GREATER SHALL BE SUPPORTED FROM STEEL JOISTS AT PANEL POINTS ONLY. IN NO CASE SHALL THESE LOADS EXCEED A UNIFORM LOAD OF 10 PSF.

FOUNDATION:

1. SOIL REPORT PREPARED BY: PATEL & ASSOC. INC. DATE: 6-1-2004 PROJECT NO.: 07940504
2. ALL SUBGRADE PREPARATION FOR PAVEMENTS, FOOTING AND SLAB SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS IN THE SAID SOIL REPORT.
3. DESIGN SOIL BEARING: 1800 PSF
4. ALL FOOTING EXCAVATION SHALL BE INSPECTED AND APPROVED BY THE SOIL ENGINEER PRIOR TO POUR ANY FOOTING CONCRETE.
5. ALL FOUNDATION SHALL BE FOUNDED 24" INCHES MINIMUM BELOW THE LOWEST ADJACENT GROUND SURFACE.

PRECAST CONCRETE PANELS:

1. ALL PANELS ARE VIEWED FROM INTERIOR, UNLESS NOTED OTHERWISE.
2. PANEL REINFORCEMENT IS CALLED OUT ON PANEL TYPES. ADDITIONAL PANEL REINFORCEMENT MAY BE CALLED OUT ON THE PANEL ELEVATIONS.
3. CONCRETE PANELS ARE 9 1/4" THICK FOR BUILDING UNLESS NOTED OTHERWISE ON THE PANEL ELEVATIONS OR TYPICAL PANEL REINFORCEMENT DRAWINGS.
4. MISCELLANEOUS STEEL FOR PANEL CONNECTIONS TO CONFORM TO ASTM A-36 STEEL.
5. SEE ARCHITECTURAL DRAWINGS FOR DESIGN REVEALS AND FORMLINERS.
6. VERIFY ALL REQUIRED OPENINGS WITH RELATED ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
7. PANEL JOINTS SHALL BE SEALED WITH 1/2" DIAMETER BUTYL ROD AND THIKOL AT EXTERIOR AND INTERIOR FACE OF PANELS.
8. THE BOTTOM OF OVERFLOW SCUPPER DRAIN OPENINGS TO BE SET 2" ABOVE ADJACENT ROOF LOW POINT.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PLACEMENT OF ALL LIFTING POINTS AND ADDITIONAL REINFORCEMENT OR STRONGBACKS REQUIRED TO ADEQUATELY TILT THE PRECAST CONCRETE PANELS. THE LIFT DESIGN SHALL BE BASED ON THE STRENGTH OF THE CONCRETE SPECIFIED BY THE STRUCTURAL DRAWINGS MODIFIED FOR THE EXPECTED TIME OF LIFT. CONTRACTOR MUST ALSO SUBMIT TO THE GOVERNMENT PRIOR TO TILTING UP COPIES OF TEST REPORTS TO SHOW THAT THE PANEL CONCRETE HAS ATTAINED THE STRENGTH REQUIRED BY THE LIFT DESIGN.
10. PANELS SHALL NOT BE LIFTED UNTIL CONCRETE HAS ATTAINED STRENGTH OF 2000 PSI (FOR 3000 PSI CONC.) OR 3000 PSI (FOR 4000 PSI CONC.) AS VERIFIED BY CYLINDER TESTING.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL BRACING REQUIRED TO BRACE PANELS PRIOR TO CONNECTION OF ALL SUPPORTING ELEMENTS SUCH AS ROOF DECK AND FLOOR SLAB. SUCH BRACING MUST BE DESIGNED TO RESIST THE MAXIMUM SHORT TERM WIND LOADS FOR THE BUILDING IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE AND ANY LOCAL ORDINANCES. BRACING AND WIND LOADS MUST BE CLEARLY SHOWN ON SHOP DRAWINGS.

BACKFILLING:

1. ALL BACKFILL SHALL CONFORM TO THE SOIL REPORT AND RECOMMENDATIONS.
2. UTILITY TRENCH BACKFILL AND ANY OTHER BACKFILL MUST BE MECHANICALLY COMPACTED. JETTING AND FLOODING SHALL NOT BE PERMITTED.
3. BACKFILL AT PERIMETER OF STRUCTURE IS NOT TO BE MADE UNTIL GROUT UNDER PANELS IS INSPECTED BY THE C.O.R.
4. WHERE WALLS ARE BACKFILLED ON ONE SIDE ONLY, PROVIDE SHORING OR OTHER APPROVED MEANS OF LATERAL SUPPORT UNTIL RESISTING ELEMENTS ARE IN PLACE AND HAVE ATTAINED THERE REQUIRED STRENGTHS. RESISTING ELEMENTS SHALL BE CONCRETE SLABS OR OTHER PERMANENT BUILDING COMPONENTS.
5. ALL FILLS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 3.3.11.7 OF THE SOIL REPORT AND CBC APPENDIX SECTION 3313.
6. UNLESS NOTED OTHERWISE, ALL FILL SHALL BE PLACED IN MAXIMUM 8" LAYERS.
7. COMPACTION REPORT SHALL BE SUBMITTED TO AND APPROVED BY THE C.O.R.

METAL DECKING:

1. METAL DECK AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORM TO ASTM A-446, GRADE A OR HIGHER SPECIFICATIONS, DECK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-525, COMMERCIAL COATING CLASS G-60.
2. STEEL FLOOR DECK SHALL BE FORMED WITH INTEGRAL LOCKING LUGS OR EMBOSSMENTS TO PROVIDE A MECHANICAL LOCK BETWEEN THE STEEL DECK AND THE CONCRETE SLAB TO PROVIDE A COMPOSITE UNITS.
3. METAL DECKS SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES PER FOOT:
- | LOCATION | DEPTH x GA. | I (IN.4) | +S (IN.3) | -S (IN.3) |
|----------|-------------|----------|-----------|-----------|
| ROOF: | 1 1/2" x 20 | 0.216 | 0.235 | 0.248 |
| FLOOR: | 2" x 20 | 0.423 | 0.361 | 0.370 |
4. WHEN SUBMITTING SHOP DRAWINGS, INCLUDE ICBQ NUMBER AND REPORT
5. DECK SHALL HAVE MINIMUM 2" BEARING AT SUPPORTS.
6. DECK UNITS SHALL BE 3 SPAN CONTINUOUS WHEREVER POSSIBLE.
7. PLACING OF DECK UNITS SHALL BE ARRANGED SO THAT END LAPS ARE STAGGERED.
8. WELDING OF DECK SHALL BE CONTINUOUSLY INSPECTED BY A CERTIFIED INSPECTOR.
9. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADE SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE DIMENSIONED ON THE STRUCTURAL DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR.

SPECIAL INSPECTION/ INSPECTOR REQUIREMENTS: (CBC1701)

1. INSPECTOR: EMPLOYED BY THE CONTRACTOR, APPROVED BY C.O.R. (CBC 1701.1).
2. THE SPECIAL INSPECTION MAY BE PERIODICAL DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
3. RESPONSIBILITY: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY PRIOR TO PERFORMING ANY WORK THAT REQUIRES INSPECTION.
4. SUMMARY OF STRUCTURAL INSPECTIONS:
- THE CONSTRUCTION INSPECTIONS SHALL INCLUDE THE INSPECTIONS REQUIRED BY CBC SECTION 108 AND THE LISTED SPECIAL INSPECTION.
- 4.1 CONCRETE (CBC 1701.5.1): DURING THE TAKING OF TEST SPECIMEN AND PLACING OF REINFORCED CONCRETE.
- 4.2 REINFORCING STEEL (CBC 1701.5.4): PRIOR TO CLOSING OF THE FORMS AND DELIVERY OF CONCRETE FOR ALL CONCRETE SPECIFIED TO HAVE SPECIAL INSPECTION.
- 4.3 STRUCTURAL WELDING OTHER THAN WELDING DONE IN AND APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH CBC SECTION 1701.5.5.
- 4.4 CONCRETE ANCHORS: CONTINUOUS INSPECTION FOR ALL EXPANSION ANCHORS OR ADHESIVE ANCHOR BOLT INSTALLATION.
- 4.5 STRUCTURAL WELDING: INSPECT ALL FIELD WELDS TO THE STRUCTURAL STEEL, INCLUDING ROOF AND FLOOR DECK WELDING. (CBC 1701.5.5).
- 4.6 HIGH-STRENGTH BOLTING: AS REQUIRED BY CBC CHAPTER 22, DIVISION IV (CBC 1701.5.6).

Seal:

Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:


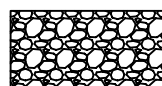
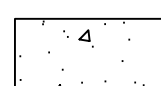

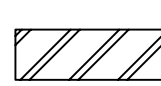

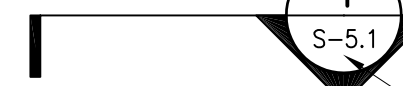


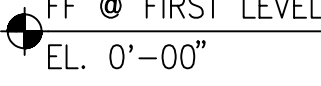





Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

GENERAL NOTES

Designed By:
Drawn By:
Checked By:

Drawing No.
S100

STRUCTURAL LEGENDS		STRUCTURAL ABBREVIATIONS																																																																																																																																																																																																																																																																																																																																	
<p>MATERIALS:</p> <p>EARTH, ETC  EARTH  GRAVEL</p> <p>CONCRETE, ETC  CONCRETE  SAND</p> <p>METALS  STEEL</p> <p>STRUCT STEEL W BM TUBE PIPE CHANNEL ANGLE STEEL TRUSS</p> <p>MASONRY  BLOCK (CMU)  BRICK</p> <p>REFERENCE:</p> <p>SECTION KEY  SECTION DESIGNATION SHEET ON WHICH SECTION IS DRAWN</p> <p>ELEVATION KEY  ELEVATION DESIGNATION SHEET ON WHICH ELEVATION IS DRAWN</p> <p>DETAIL KEY  DETAIL DESIGNATION SHEET ON WHICH DETAIL IS DRAWN</p> <p>NORTH ARROW </p> <p>ELEVATION SYMBOL </p> <p>FOOTING TYPE </p> <p> INDICATES BOLT IN PLAN AND/OR ELEVATION</p> <p> PANEL NUMBER</p> <p> EQUIPMENT ENCLOSURE PANEL NUMBER</p> <p> TRASH ENCLOSURE PANEL NUMBER</p> <p> VAULT PANEL NUMBER</p>		<table><tr><td>AB</td><td>ANCHOR BOLT</td><td>L</td><td>LENGTH</td></tr><tr><td>ACI</td><td>AMERICAN CONCRETE INSTITUTE</td><td>LLH</td><td>LONG LEG HORIZONTAL</td></tr><tr><td>AISC</td><td>AMERICAN INSTITUTE OF STEEL CONSTRUCTION</td><td>LT</td><td>LIGHT</td></tr><tr><td></td><td></td><td>LLV</td><td>LONG LEG VERTICAL</td></tr><tr><td>ALT</td><td>ALTERNATE</td><td>LOC</td><td>LOCATION</td></tr><tr><td>ARCH</td><td>ARCHITECTURAL, ARCHITECT</td><td>LP</td><td>LOW POINT</td></tr><tr><td></td><td></td><td>MATL</td><td>MATERIAL</td></tr><tr><td>BM</td><td>BEAM</td><td>MAX</td><td>MAXIMUM</td></tr><tr><td>BOF</td><td>BOTTOM OF FOOTING</td><td>MB</td><td>MACHINE BOLT (A307 BOLT)</td></tr><tr><td>BOI</td><td>BID OPTIONAL ITEM</td><td>MFR</td><td>MANUFACTURER</td></tr><tr><td>BOTT</td><td>BOTTOM</td><td>MIN</td><td>MINIMUM</td></tr><tr><td>BP</td><td>BASE PLATE</td><td>MEZZ</td><td>MEZZANINE</td></tr><tr><td>BRCG</td><td>BRACING</td><td>MSL</td><td>MEAN SEA LEVEL</td></tr><tr><td>BRDG</td><td>BRIDGING</td><td>MTL</td><td>METAL</td></tr><tr><td>BRG</td><td>BEARING</td><td>(N)</td><td>NEW</td></tr><tr><td>BLDG</td><td>BUILDING</td><td>NS</td><td>NEAR SIDE</td></tr><tr><td></td><td></td><td>OC</td><td>ON CENTER</td></tr><tr><td>CBC</td><td>CALIFORNIA BUILDING CODE</td><td>OH</td><td>OPPOSITE HAND</td></tr><tr><td>CJ</td><td>CONTROL JOINT</td><td>OPN'G</td><td>OPENING</td></tr><tr><td>CL</td><td>CENTER LINE</td><td></td><td></td></tr><tr><td>CLR</td><td>CLEAR</td><td></td><td></td></tr><tr><td>CMU</td><td>CONCRETE MASONRY UNIT</td><td>PCF</td><td>POUNDS PER CUBIC FOOT</td></tr><tr><td>COL</td><td>COLUMN</td><td>PC</td><td>PRECAST</td></tr><tr><td>CONC</td><td>CONCRETE</td><td>PL</td><td>PLATE (STEEL)</td></tr><tr><td>CONN</td><td>CONNECTION</td><td>PP</td><td>PARTIAL PENETRATION</td></tr><tr><td>CONT</td><td>CONTINUOUS</td><td>PROJ</td><td>PROJECTION</td></tr><tr><td>C.O.R.</td><td>CONTRACTING OFFICER REPRESENTATIVE</td><td>PSF</td><td>POUNDS PER SQUARE FOOT</td></tr><tr><td></td><td></td><td>PSI</td><td>POUNDS PER SQUARE INCH</td></tr><tr><td>CP</td><td>COMPLETE PENETRATION WELD</td><td></td><td></td></tr><tr><td>CSJ</td><td>CONSTRUCTION JOINT</td><td>REF</td><td>REFERENCE</td></tr><tr><td>CSK</td><td>COUNTERSINK</td><td>REINF</td><td>REINFORCEMENT</td></tr><tr><td>CTRD</td><td>CENTERED</td><td>REQ'D</td><td>REQUIRED</td></tr><tr><td></td><td></td><td>RO</td><td>ROUGH OPENING</td></tr><tr><td>DBL</td><td>DOUBLE</td><td>RHB</td><td>ROWS OF HORIZ BRIDGING</td></tr><tr><td>DET</td><td>DETAIL</td><td></td><td></td></tr><tr><td>DIA</td><td>DIAMETER</td><td></td><td></td></tr><tr><td>DIAG</td><td>DIAGONAL</td><td>SC</td><td>SLIP CRITICAL</td></tr><tr><td>DIM</td><td>DIMENSION</td><td>SCHED</td><td>SCHEDULE</td></tr><tr><td>DN</td><td>DOWN</td><td>SDI</td><td>STEEL DECK INSTITUTE</td></tr><tr><td>DO</td><td>DITTO</td><td>SHT</td><td>SHEET</td></tr><tr><td>DWG</td><td>DRAWING</td><td>SEP</td><td>SEPARATION</td></tr><tr><td>DWL</td><td>DOWEL</td><td>SIM</td><td>SIMILAR</td></tr><tr><td></td><td></td><td>SJ</td><td>STEEL JOIST</td></tr><tr><td>(E)</td><td>EXISTING</td><td>SLV</td><td>SLEEVE</td></tr><tr><td>EA</td><td>EACH</td><td>SOG</td><td>SLAB ON GRADE</td></tr><tr><td>EF</td><td>EACH FACE</td><td>SPCS</td><td>SPACE</td></tr><tr><td>EJ</td><td>EXPANSION JOINT</td><td>SPEC</td><td>SPECIFICATION</td></tr><tr><td>EL</td><td>ELEVATION</td><td>SQ</td><td>SQUARE</td></tr><tr><td>ELEV</td><td>ELEVATION</td><td>STD</td><td>STANDARD</td></tr><tr><td>EN</td><td>EDGE NAILING</td><td>STIFF</td><td>STIFFENER</td></tr><tr><td>EQ</td><td>EQUAL</td><td>STIR</td><td>STIRRUP</td></tr><tr><td>EQUIP</td><td>EQUIPMENT</td><td>STL</td><td>STEEL</td></tr><tr><td>EW</td><td>EACH WAY</td><td></td><td></td></tr><tr><td>EXP</td><td>EXPANSION</td><td>T&B</td><td>TOP AND BOTTOM</td></tr><tr><td>EXT</td><td>EXTERIOR</td><td>T/</td><td>TOP OF</td></tr><tr><td></td><td></td><td>T/P</td><td>TOP OF PARAPET</td></tr><tr><td></td><td></td><td>T/S</td><td>TOP OF SLAB</td></tr><tr><td></td><td></td><td>T/W</td><td>TOP OF WALL</td></tr><tr><td>FIN</td><td>FINISH</td><td>THD</td><td>THREAD</td></tr><tr><td>FDN</td><td>FOUNDATION</td><td>THK</td><td>THICK(EN)</td></tr><tr><td>FF</td><td>FINISH FLOOR</td><td>TOC</td><td>TOP OF CONCRETE</td></tr><tr><td>FLR</td><td>FLOOR</td><td>TOS</td><td>TOP OF STEEL</td></tr><tr><td>FN</td><td>FIELD NAILING</td><td>TYP</td><td>TYPICAL</td></tr><tr><td>FOS</td><td>FACE OF STUD</td><td></td><td></td></tr><tr><td>FRMG</td><td>FRAMING</td><td>UBC</td><td>UNIFORM BUILDING CODE</td></tr><tr><td>FS</td><td>FAR SIDE</td><td>UNO</td><td>UNLESS NOTED OTHERWISE</td></tr><tr><td>FTG</td><td>FOOTING</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>GALV</td><td>GALVANIZED</td><td>V OR VERT</td><td>VERTICAL</td></tr><tr><td>GB</td><td>GRADE BEAM</td><td>VIF</td><td>VERIFY IN FIELD</td></tr><tr><td>GRTG</td><td>GRATING</td><td></td><td></td></tr><tr><td></td><td></td><td>W/</td><td>WITH</td></tr><tr><td>HDR</td><td>HEADER</td><td>W/O</td><td>WITHOUT</td></tr><tr><td>HGR</td><td>HANGER</td><td>WHS</td><td>WELDED HEADED STUD</td></tr><tr><td>HORIZ</td><td>HORIZONTAL</td><td>WS</td><td>WATER STOP</td></tr><tr><td>HP</td><td>HIGH POINT</td><td>WP</td><td>WORK POINT</td></tr><tr><td>HR</td><td>HANDRAIL</td><td>WT</td><td>WEIGHT</td></tr><tr><td>HS</td><td>HIGH STRENGTH</td><td></td><td></td></tr><tr><td>JNT</td><td>JOINT</td><td></td><td></td></tr><tr><td>JST</td><td>JOIST</td><td></td><td></td></tr></table>		AB	ANCHOR BOLT	L	LENGTH	ACI	AMERICAN CONCRETE INSTITUTE	LLH	LONG LEG HORIZONTAL	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LT	LIGHT			LLV	LONG LEG VERTICAL	ALT	ALTERNATE	LOC	LOCATION	ARCH	ARCHITECTURAL, ARCHITECT	LP	LOW POINT			MATL	MATERIAL	BM	BEAM	MAX	MAXIMUM	BOF	BOTTOM OF FOOTING	MB	MACHINE BOLT (A307 BOLT)	BOI	BID OPTIONAL ITEM	MFR	MANUFACTURER	BOTT	BOTTOM	MIN	MINIMUM	BP	BASE PLATE	MEZZ	MEZZANINE	BRCG	BRACING	MSL	MEAN SEA LEVEL	BRDG	BRIDGING	MTL	METAL	BRG	BEARING	(N)	NEW	BLDG	BUILDING	NS	NEAR SIDE			OC	ON CENTER	CBC	CALIFORNIA BUILDING CODE	OH	OPPOSITE HAND	CJ	CONTROL JOINT	OPN'G	OPENING	CL	CENTER LINE			CLR	CLEAR			CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT	COL	COLUMN	PC	PRECAST	CONC	CONCRETE	PL	PLATE (STEEL)	CONN	CONNECTION	PP	PARTIAL PENETRATION	CONT	CONTINUOUS	PROJ	PROJECTION	C.O.R.	CONTRACTING OFFICER REPRESENTATIVE	PSF	POUNDS PER SQUARE FOOT			PSI	POUNDS PER SQUARE INCH	CP	COMPLETE PENETRATION WELD			CSJ	CONSTRUCTION JOINT	REF	REFERENCE	CSK	COUNTERSINK	REINF	REINFORCEMENT	CTRD	CENTERED	REQ'D	REQUIRED			RO	ROUGH OPENING	DBL	DOUBLE	RHB	ROWS OF HORIZ BRIDGING	DET	DETAIL			DIA	DIAMETER			DIAG	DIAGONAL	SC	SLIP CRITICAL	DIM	DIMENSION	SCHED	SCHEDULE	DN	DOWN	SDI	STEEL DECK INSTITUTE	DO	DITTO	SHT	SHEET	DWG	DRAWING	SEP	SEPARATION	DWL	DOWEL	SIM	SIMILAR			SJ	STEEL JOIST	(E)	EXISTING	SLV	SLEEVE	EA	EACH	SOG	SLAB ON GRADE	EF	EACH FACE	SPCS	SPACE	EJ	EXPANSION JOINT	SPEC	SPECIFICATION	EL	ELEVATION	SQ	SQUARE	ELEV	ELEVATION	STD	STANDARD	EN	EDGE NAILING	STIFF	STIFFENER	EQ	EQUAL	STIR	STIRRUP	EQUIP	EQUIPMENT	STL	STEEL	EW	EACH WAY			EXP	EXPANSION	T&B	TOP AND BOTTOM	EXT	EXTERIOR	T/	TOP OF			T/P	TOP OF PARAPET			T/S	TOP OF SLAB			T/W	TOP OF WALL	FIN	FINISH	THD	THREAD	FDN	FOUNDATION	THK	THICK(EN)	FF	FINISH FLOOR	TOC	TOP OF CONCRETE	FLR	FLOOR	TOS	TOP OF STEEL	FN	FIELD NAILING	TYP	TYPICAL	FOS	FACE OF STUD			FRMG	FRAMING	UBC	UNIFORM BUILDING CODE	FS	FAR SIDE	UNO	UNLESS NOTED OTHERWISE	FTG	FOOTING							GALV	GALVANIZED	V OR VERT	VERTICAL	GB	GRADE BEAM	VIF	VERIFY IN FIELD	GRTG	GRATING					W/	WITH	HDR	HEADER	W/O	WITHOUT	HGR	HANGER	WHS	WELDED HEADED STUD	HORIZ	HORIZONTAL	WS	WATER STOP	HP	HIGH POINT	WP	WORK POINT	HR	HANDRAIL	WT	WEIGHT	HS	HIGH STRENGTH			JNT	JOINT			JST	JOIST		
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BRCG	BRACING	MSL	MEAN SEA LEVEL																																																																																																																																																																																																																																																																																																																																
BRDG	BRIDGING	MTL	METAL																																																																																																																																																																																																																																																																																																																																
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		OC	ON CENTER																																																																																																																																																																																																																																																																																																																																
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DWG	DRAWING	SEP	SEPARATION																																																																																																																																																																																																																																																																																																																																
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EJ	EXPANSION JOINT	SPEC	SPECIFICATION																																																																																																																																																																																																																																																																																																																																
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		T/S	TOP OF SLAB																																																																																																																																																																																																																																																																																																																																
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FDN	FOUNDATION	THK	THICK(EN)																																																																																																																																																																																																																																																																																																																																
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FRMG	FRAMING	UBC	UNIFORM BUILDING CODE																																																																																																																																																																																																																																																																																																																																
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GALV	GALVANIZED	V OR VERT	VERTICAL																																																																																																																																																																																																																																																																																																																																
GB	GRADE BEAM	VIF	VERIFY IN FIELD																																																																																																																																																																																																																																																																																																																																
GRTG	GRATING																																																																																																																																																																																																																																																																																																																																		
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HP	HIGH POINT	WP	WORK POINT																																																																																																																																																																																																																																																																																																																																
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		DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS																																																																																																																																																																																																																																																																																																																																	

Seal:

Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

ABBREVIATIONS
AND LEGENDS

Designed By:
Drawn By:
Checked By:

Drawing No.
S101

AM-02

Seal:

Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



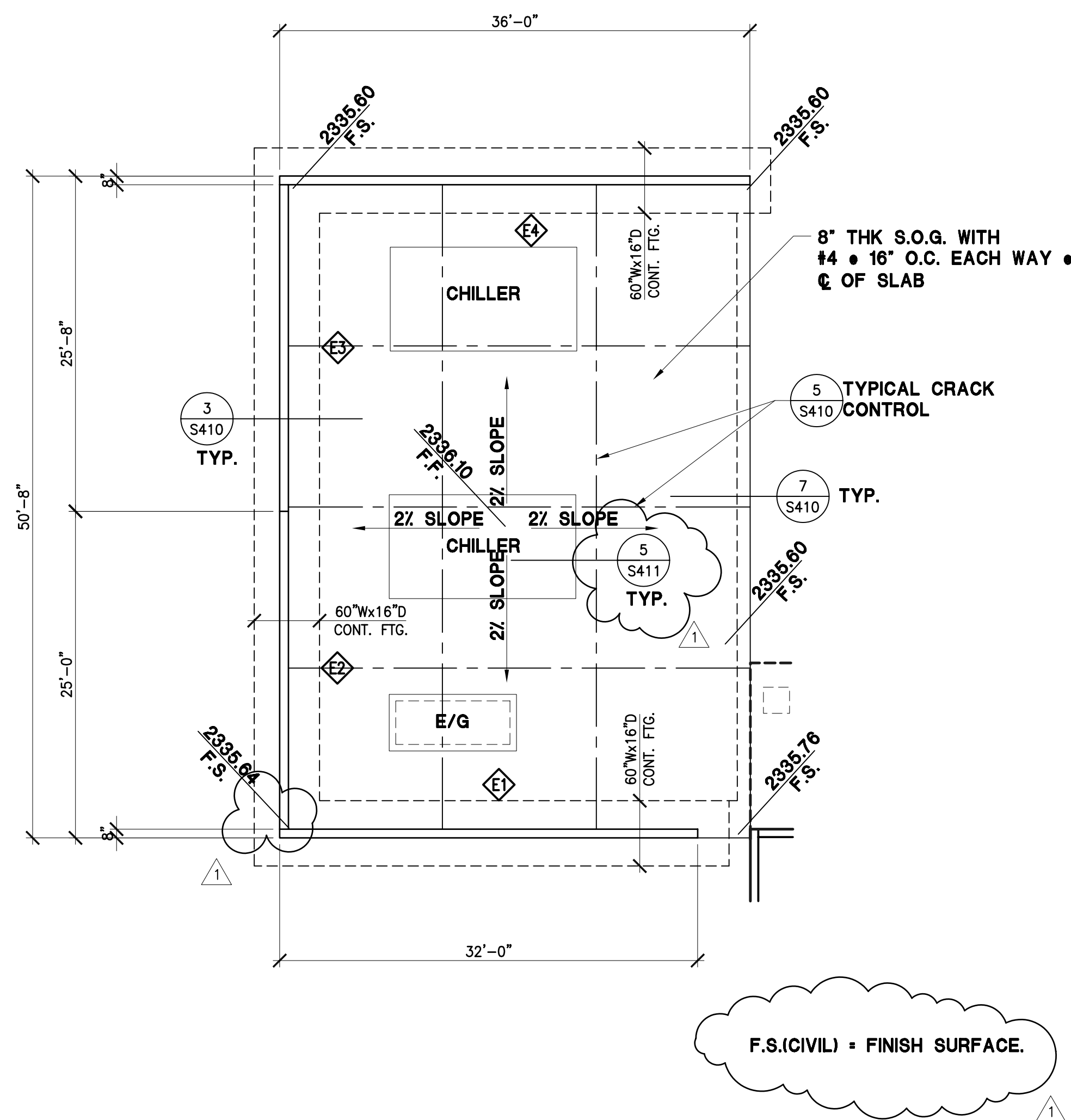
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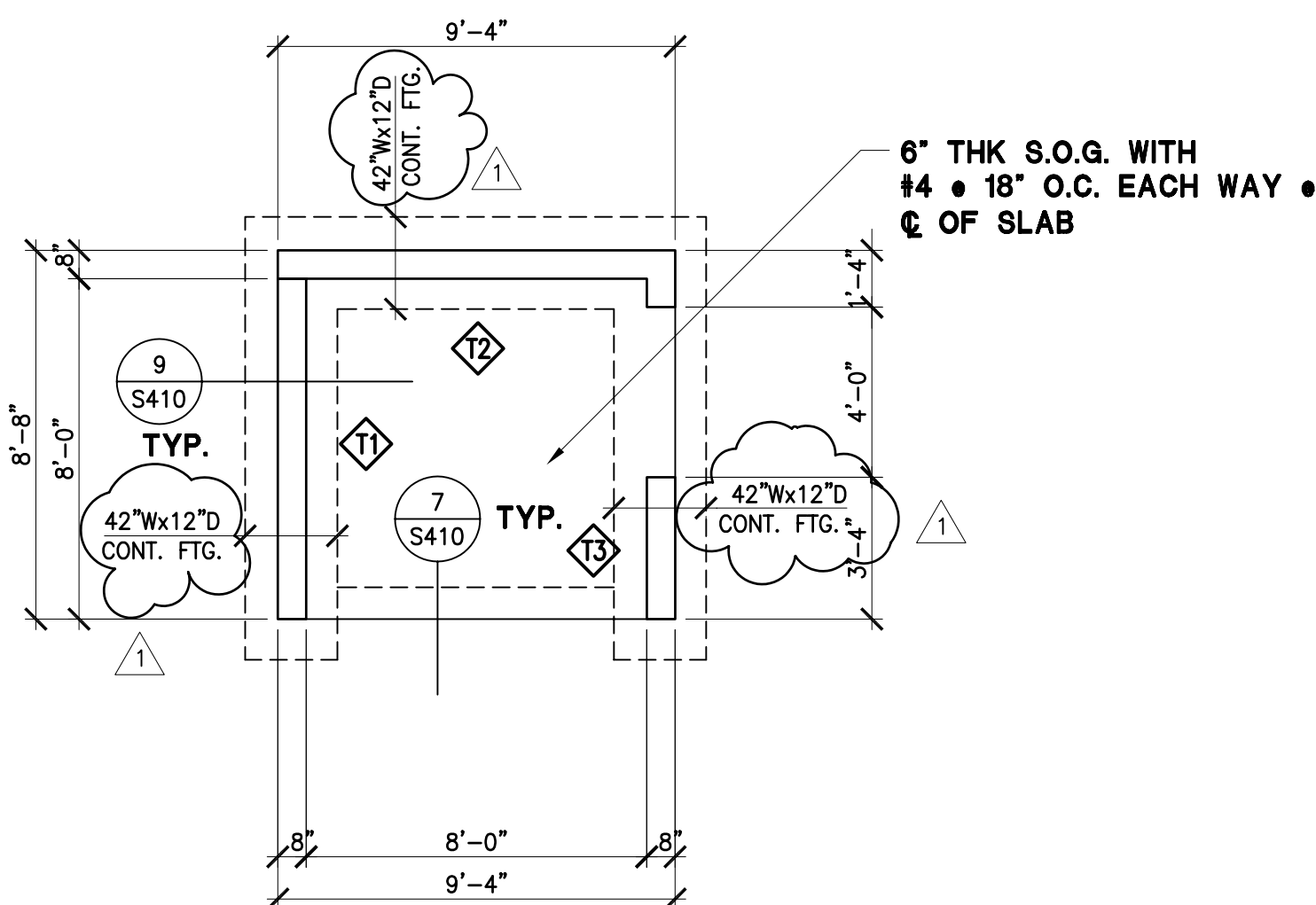
Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

ENLARGED SITE
FOUNDATION PLANS
AND PANEL ELEVATIONS

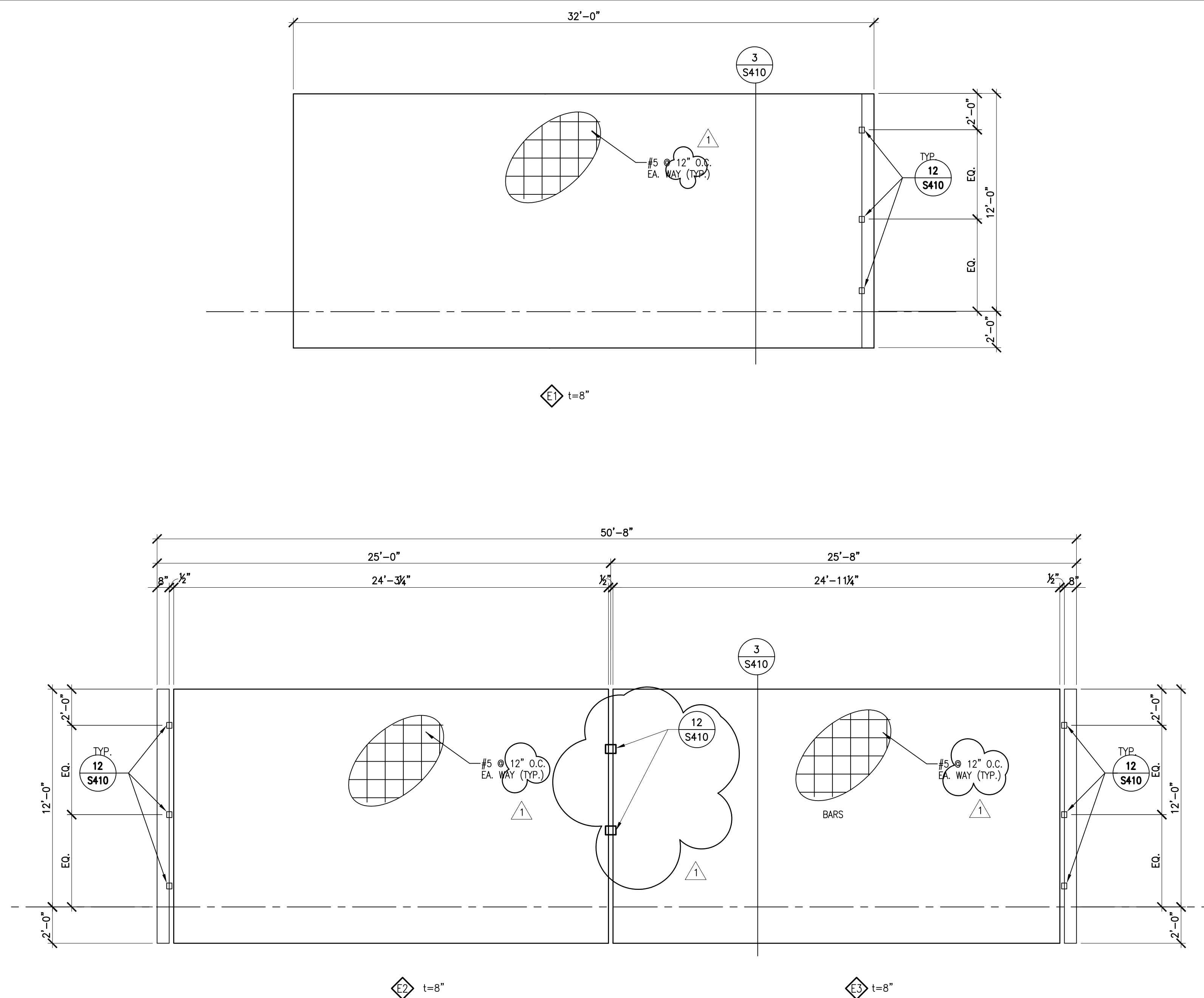
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Drawn By: RR
Checked By: RM
Drawing No. **S110**



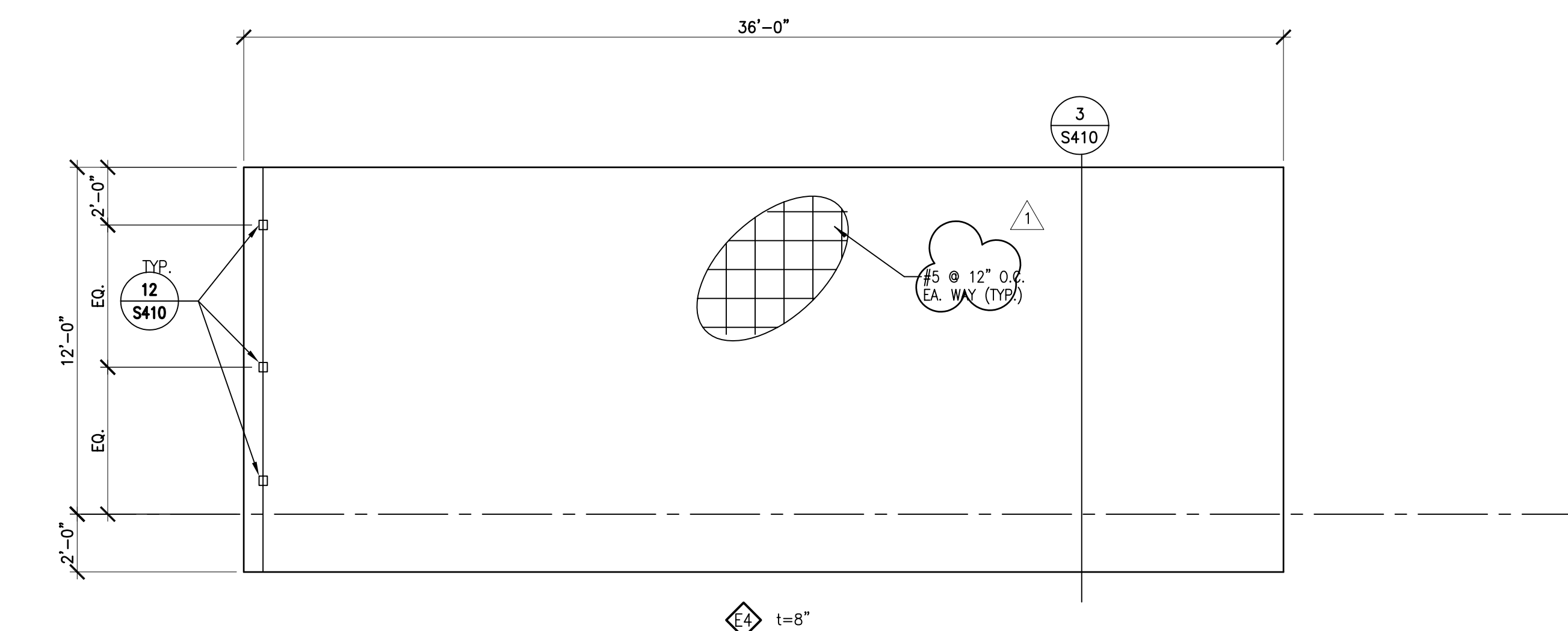
1 ENLARGED EQUIPMENT ENCLOSURE PLAN
SCALE: 1/8"=1'-0"



2 ENLARGED TRASH ENCLOSURE PLAN
SCALE: 1/8"=1'-0"

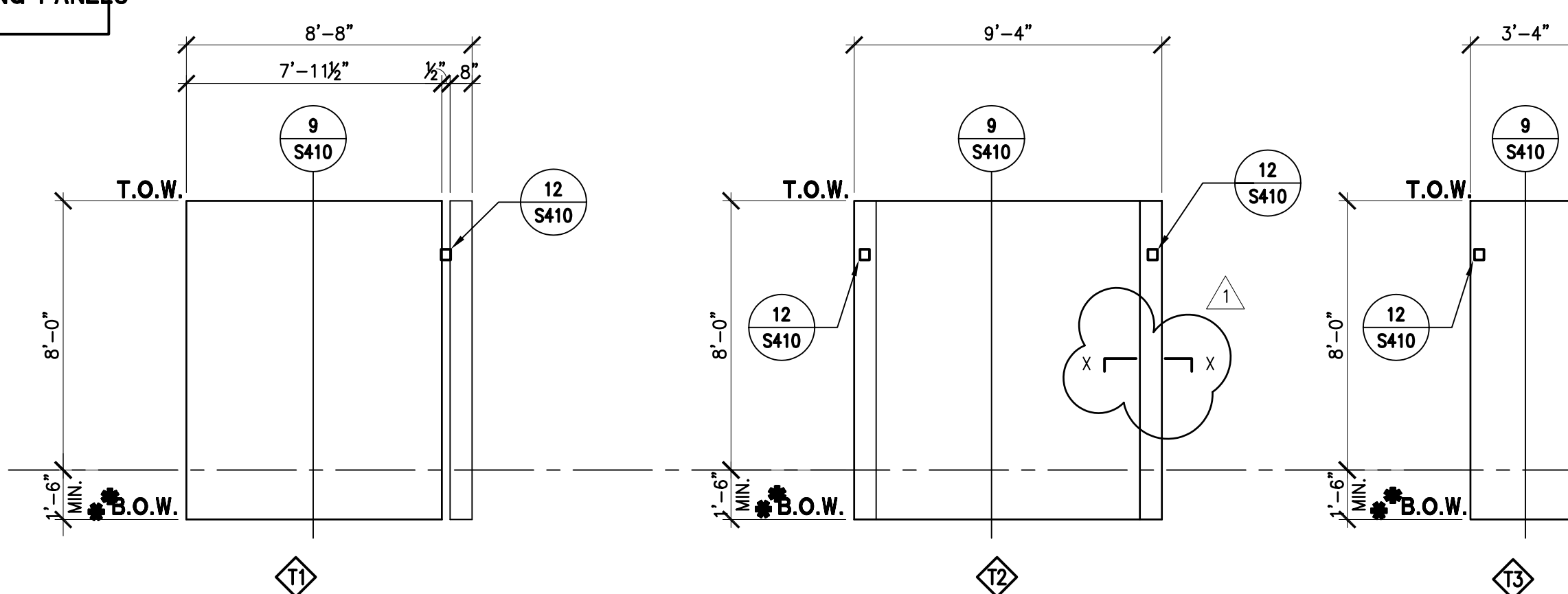


3 WALL PANEL ELEVATIONS • EQUIPMENT ENCLOSURE
SCALE: 1/4"=1'-0"

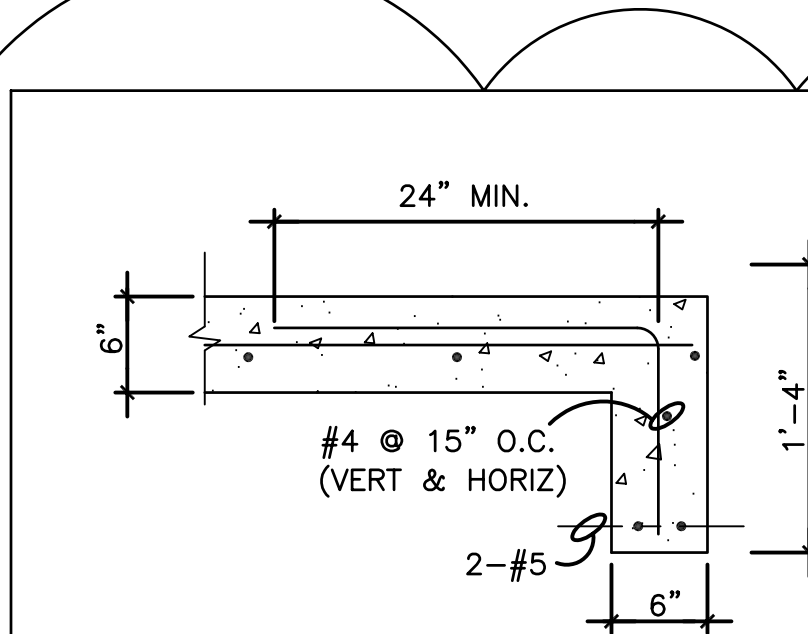


4 WALL PANEL ELEVATION • TRASH ENCLOSURE
SCALE: 1/4"=1'-0"

TO MATCH ADJOINING PANELS
(WHERE OCCURS)



NOTE:
REFER TO ARCH. FOR
REVEALS & FORMLINERS



5 SECTION X-X
SCALE: 1"=1'-0"

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

Seal:

Revision:			
No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

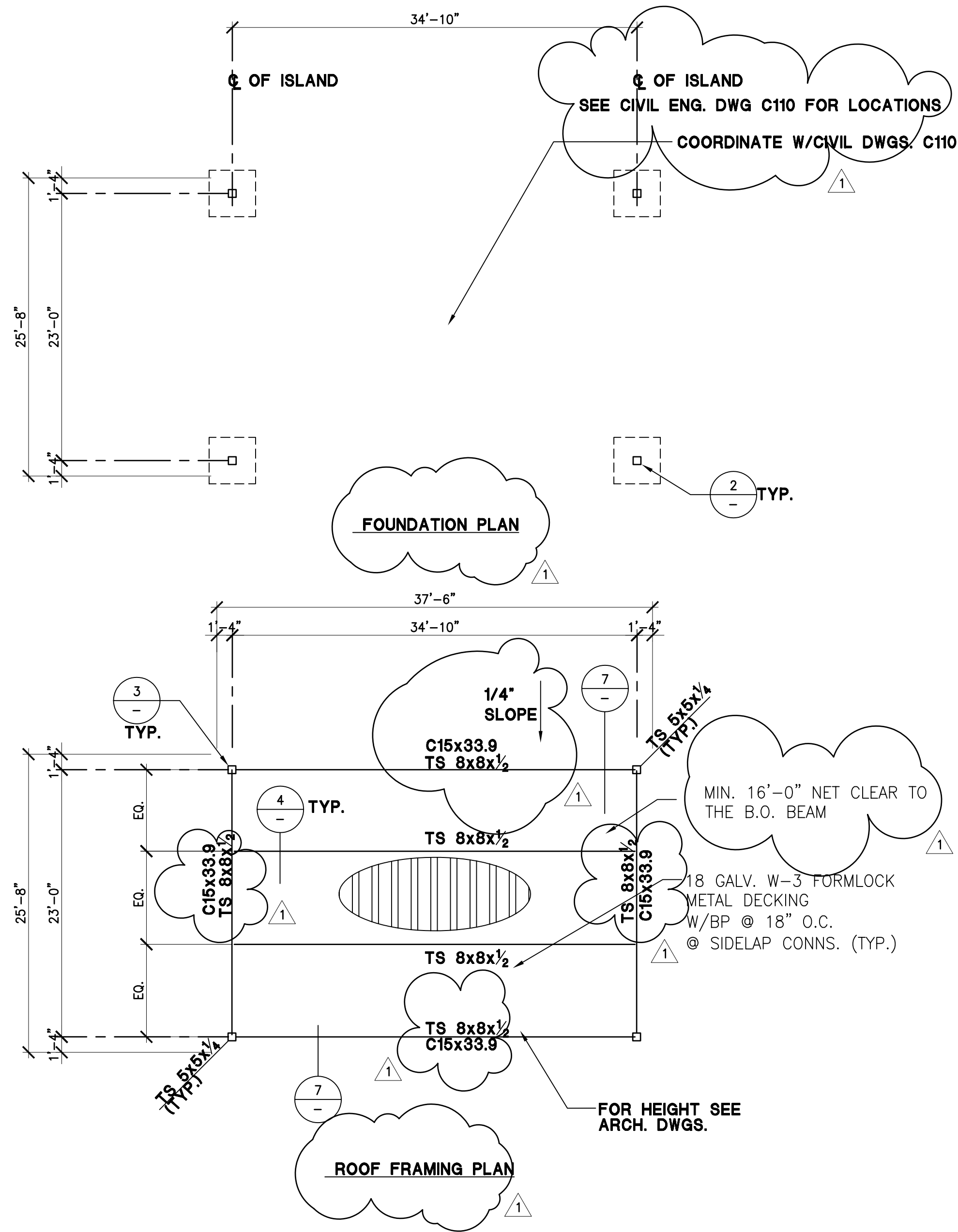
Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

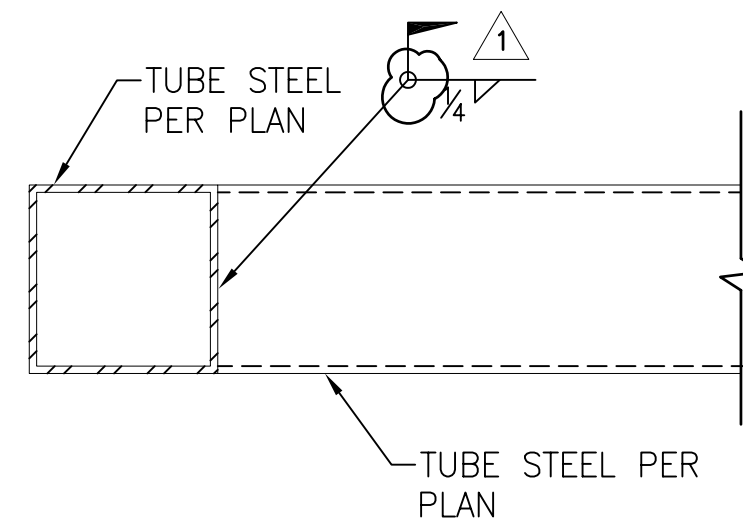
CANOPIES FRAMING
PLANS AND DETAILS

Designed By: RR
Drawn By: RR
Checked By: RM

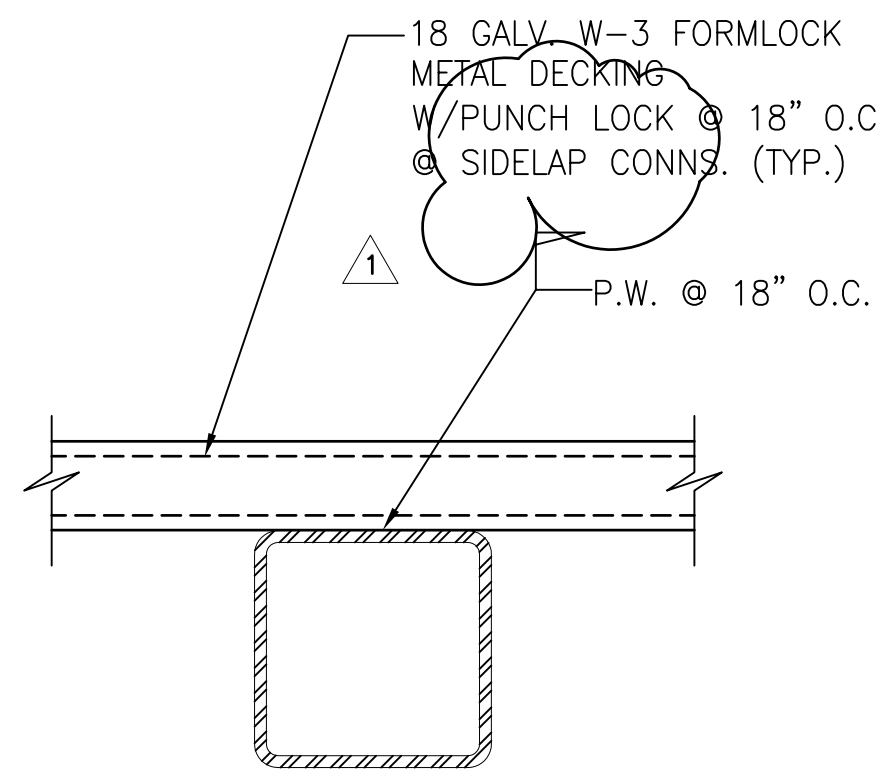
Drawing No.
S111



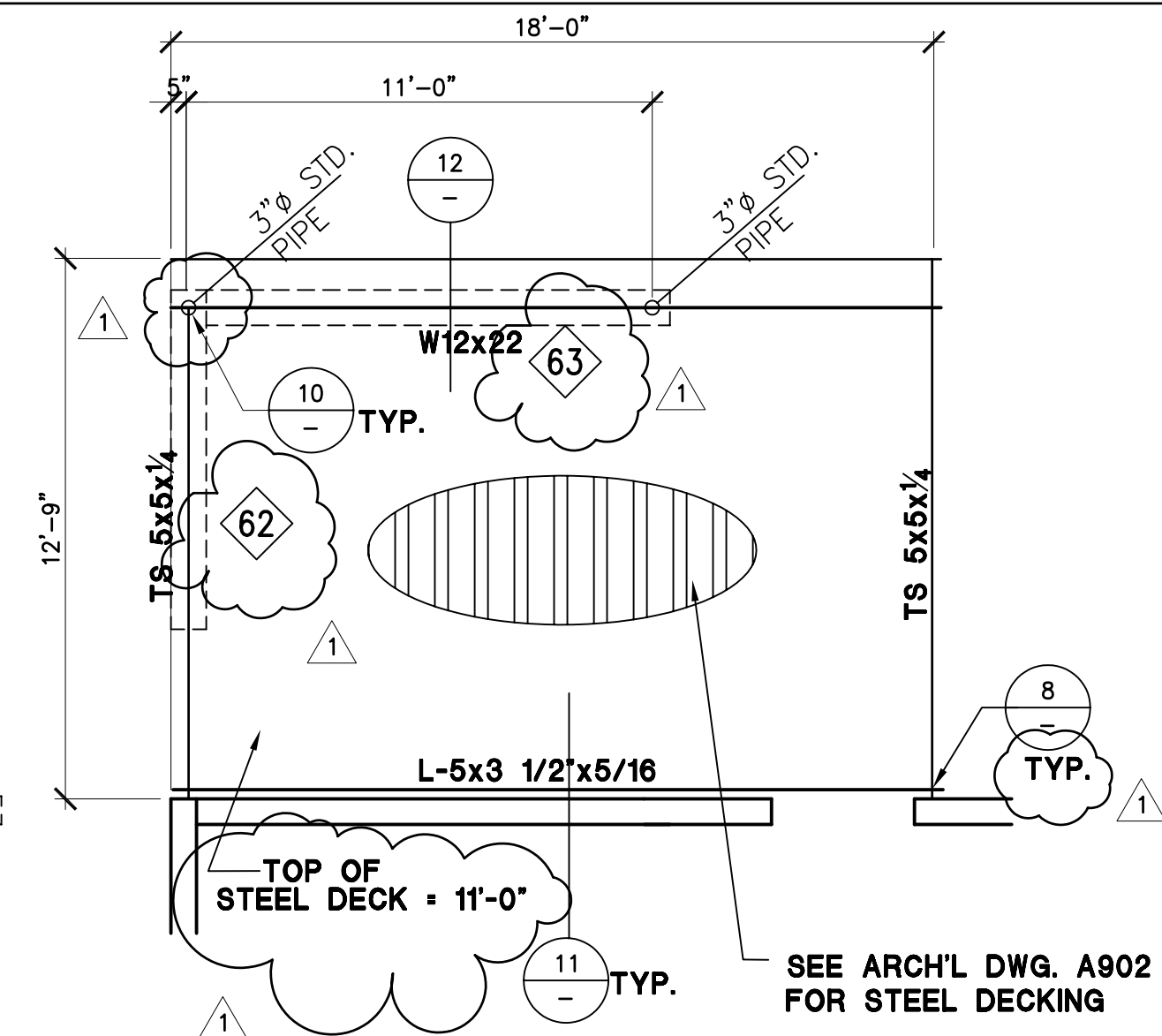
1 CANOPY FOUNDATION AND FRAMING PLAN • CAR WASH
SCALE: 1/8"=1'-0"



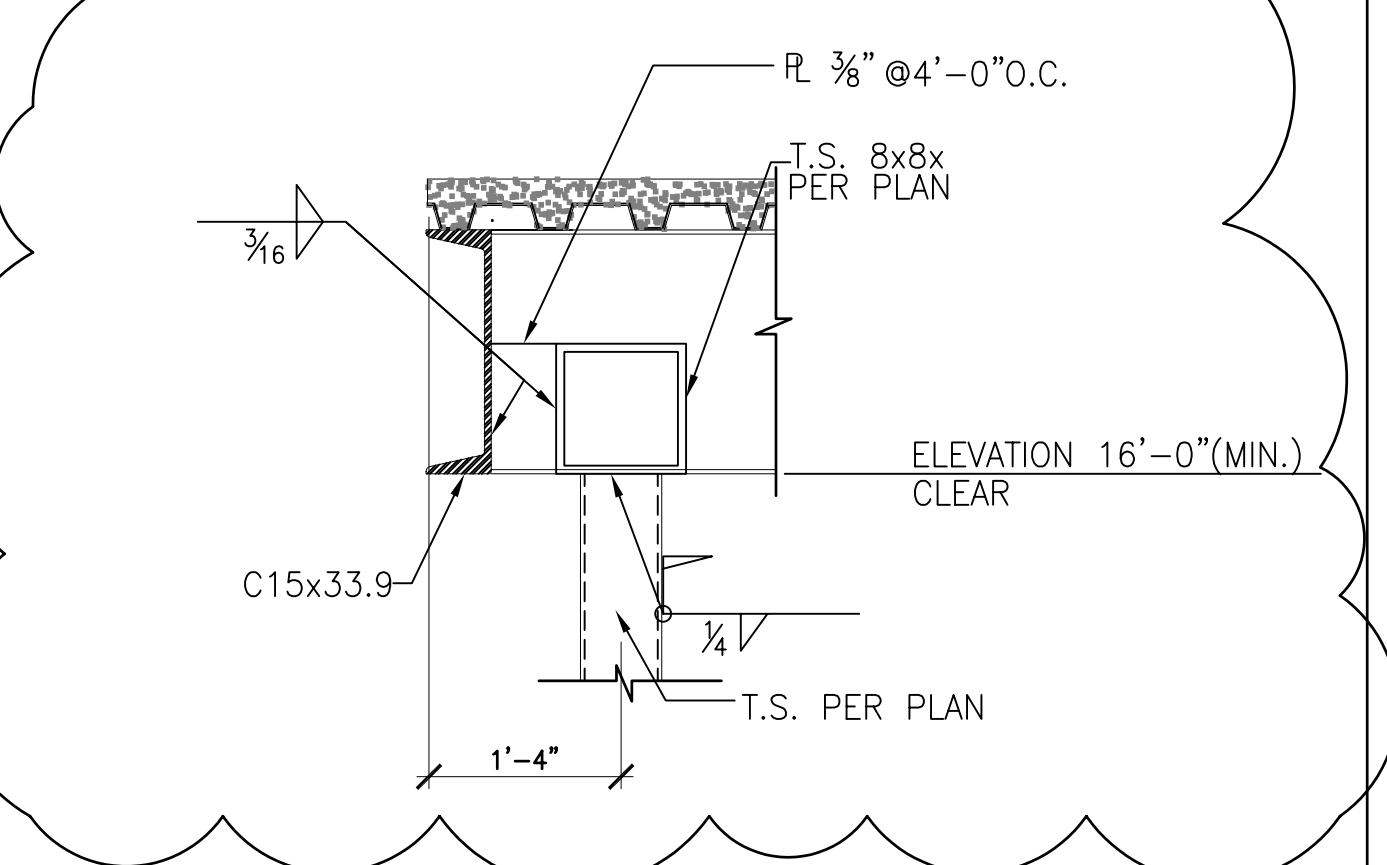
3 TUBE STEEL TO TUBE STEEL
SCALE: NONE



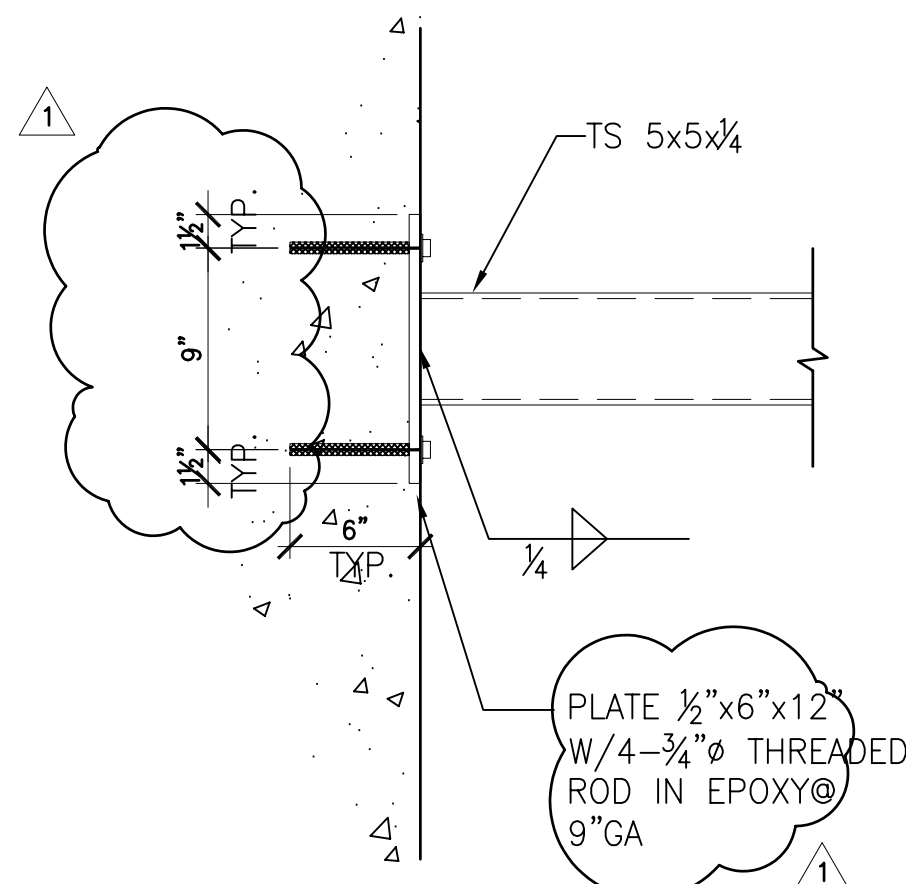
4 CANOPY SUPPORT DETAIL
SCALE: NONE



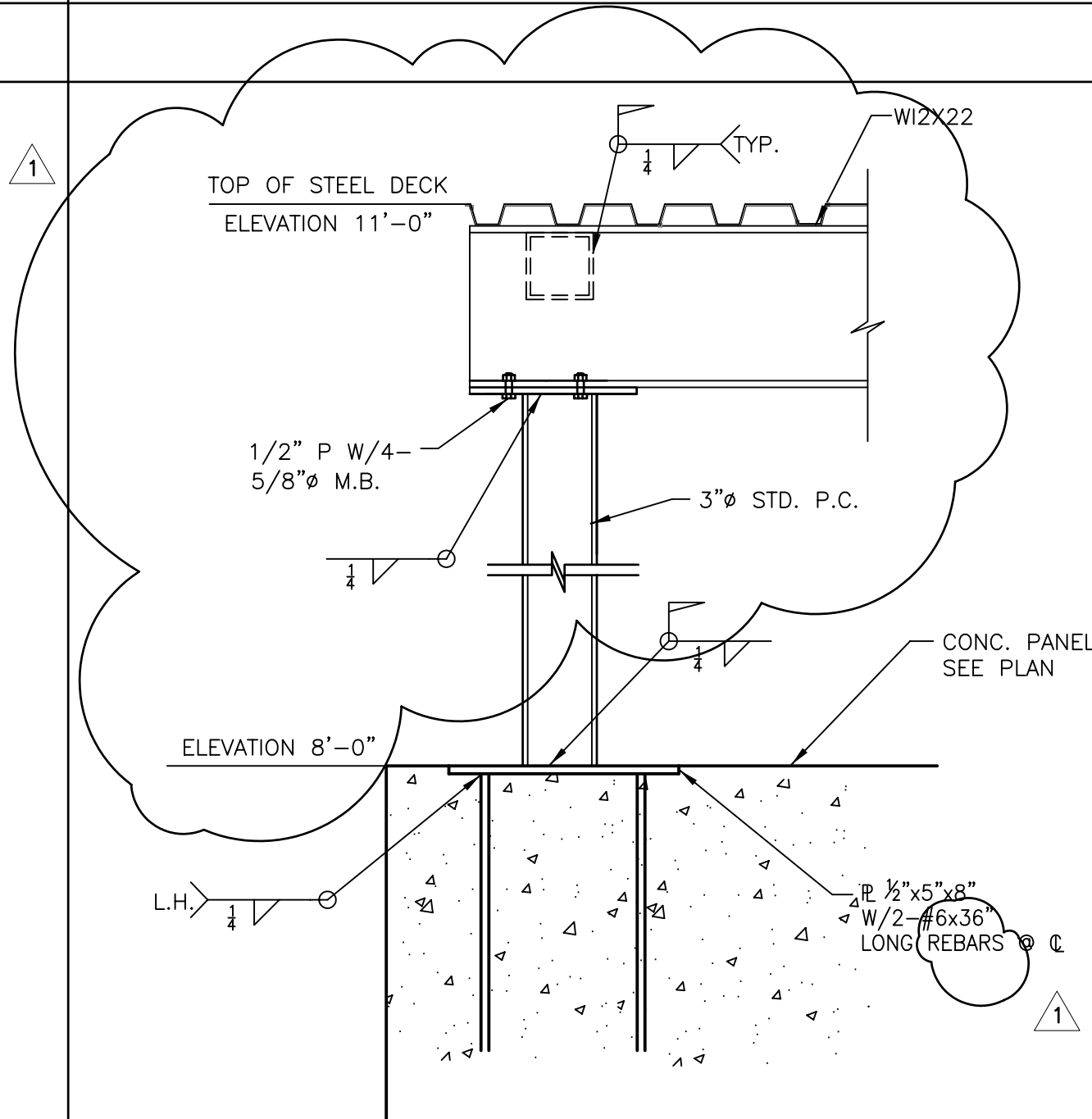
6 CANOPY FRAMING PLAN • CANWASH AREA
SCALE: 1/4"=1'-0"



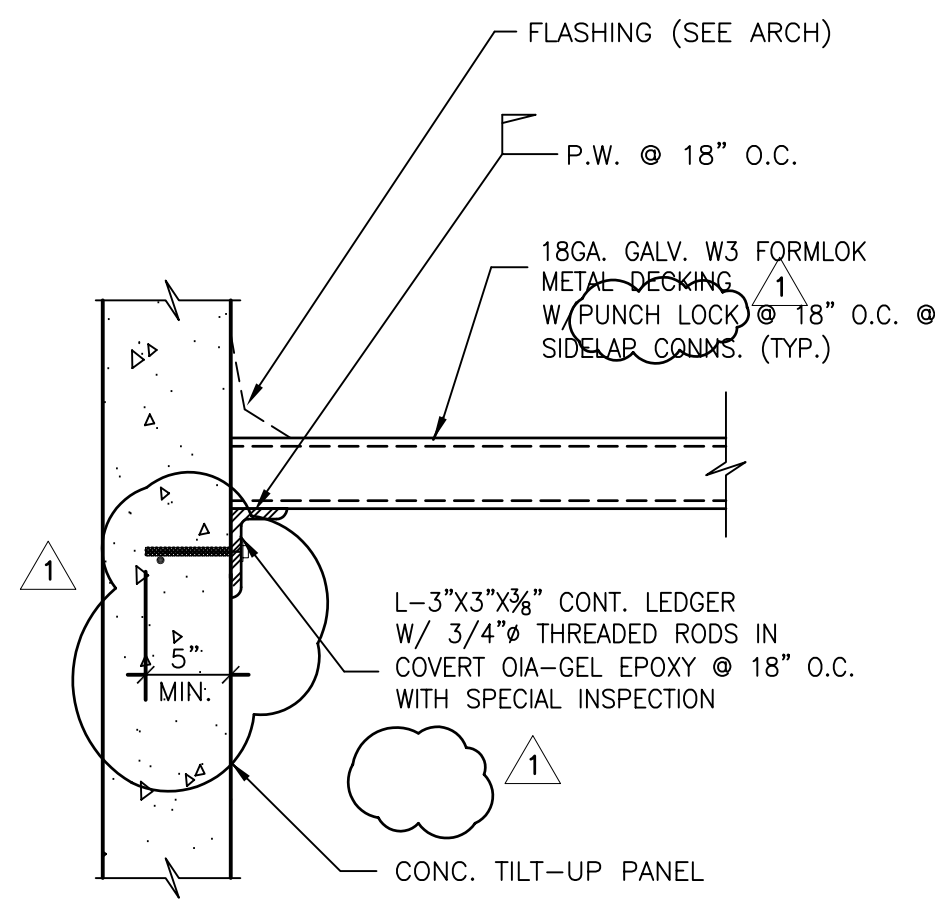
7 CHANNEL • COLUMN
SCALE: NONE



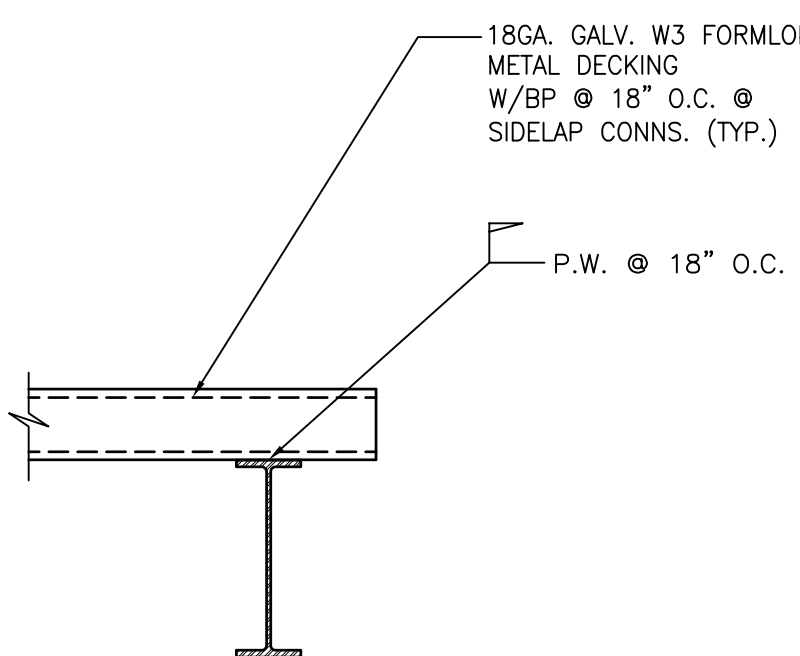
8 CHANNEL CONNECTION
SCALE: NONE



10 CANOPY SUPPORT DETAIL
SCALE: NONE



11 CANOPY SUPPORT DETAIL
SCALE: NONE



12 CANOPY SUPPORT DETAIL
SCALE: NONE

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
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DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

Seal:

Revision:

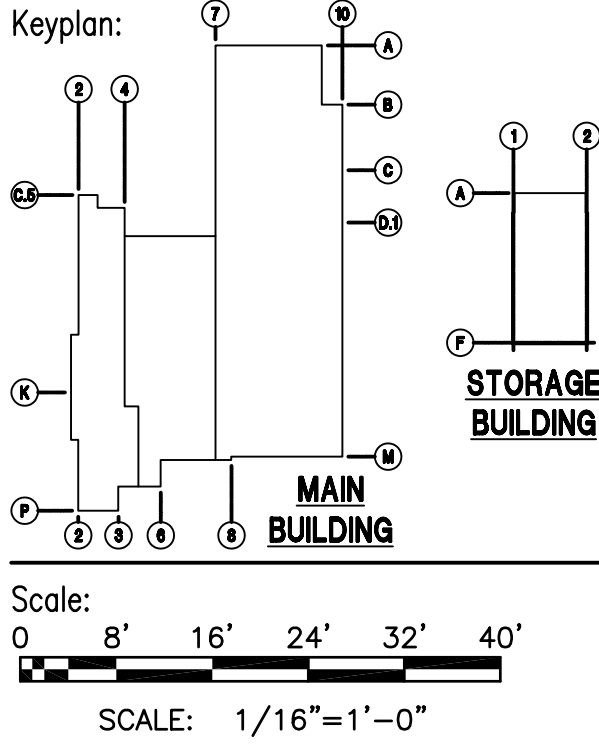
No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

FOUNDATION NOTES:

- METAL BUILDING REGISTERED (CIVIL OR STRUCTURAL) ENGINEER TO VERIFY THE DESIGN OF THE FOUNDATION (BY KLT) FOR THE STORAGE BUILDING.
- VERIFY ALL FLOOR RECESS SLAB DEPRESSION WITH ARCHITECTURAL PLANS.
- VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCY ON DIMENSIONS TO THE PROJECT ENGINEER OR ARCHITECT IN CHARGE BEFORE THE START OF CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR FINISHED SLAB ELEVATIONS.
- SEE CIVIL DRAWINGS FOR ALL EXTERIOR PAVEMENT AND CONCRETE SLAB.
- INDICATES FOOTING PAD NUMBER. SEE SCHEDULE.
- CRACK CONTROL JOINTS SHALL NOT EXCEED 15'-0" O.C.

COLUMN AND FOOTING SCHEDULE					
TYPE	COL. SIZE	BASE PLATE	PAD SIZE	PAD THK.	PAD REBAR
1	BY OTHER		6'-0"x6'-0"	24"	6-#6 E.W.

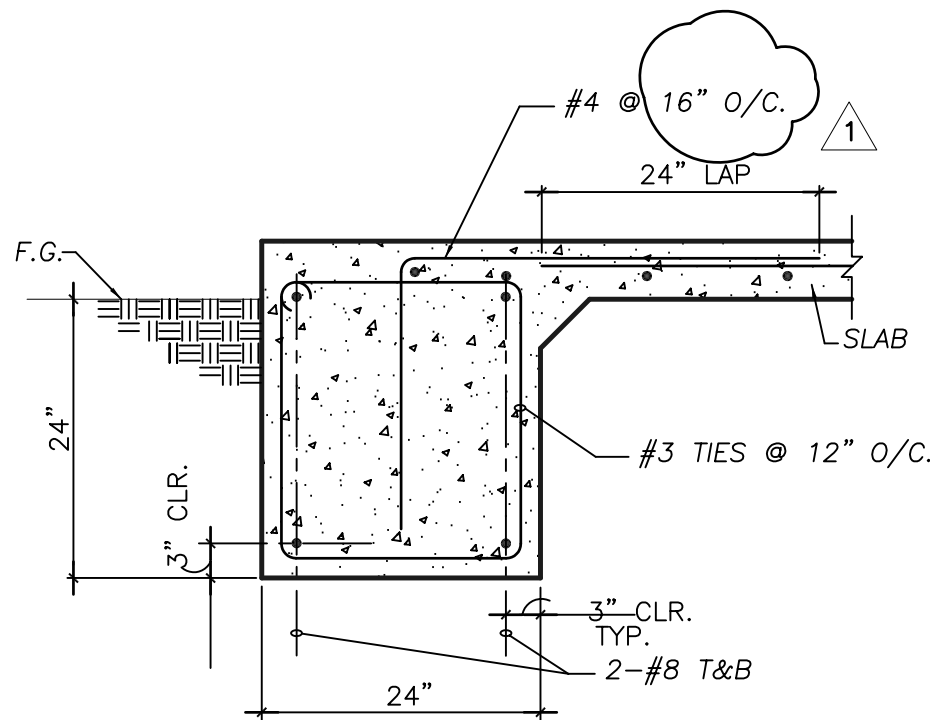
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CITY OF LANCASTER, LOS ANGELES CO. CA.



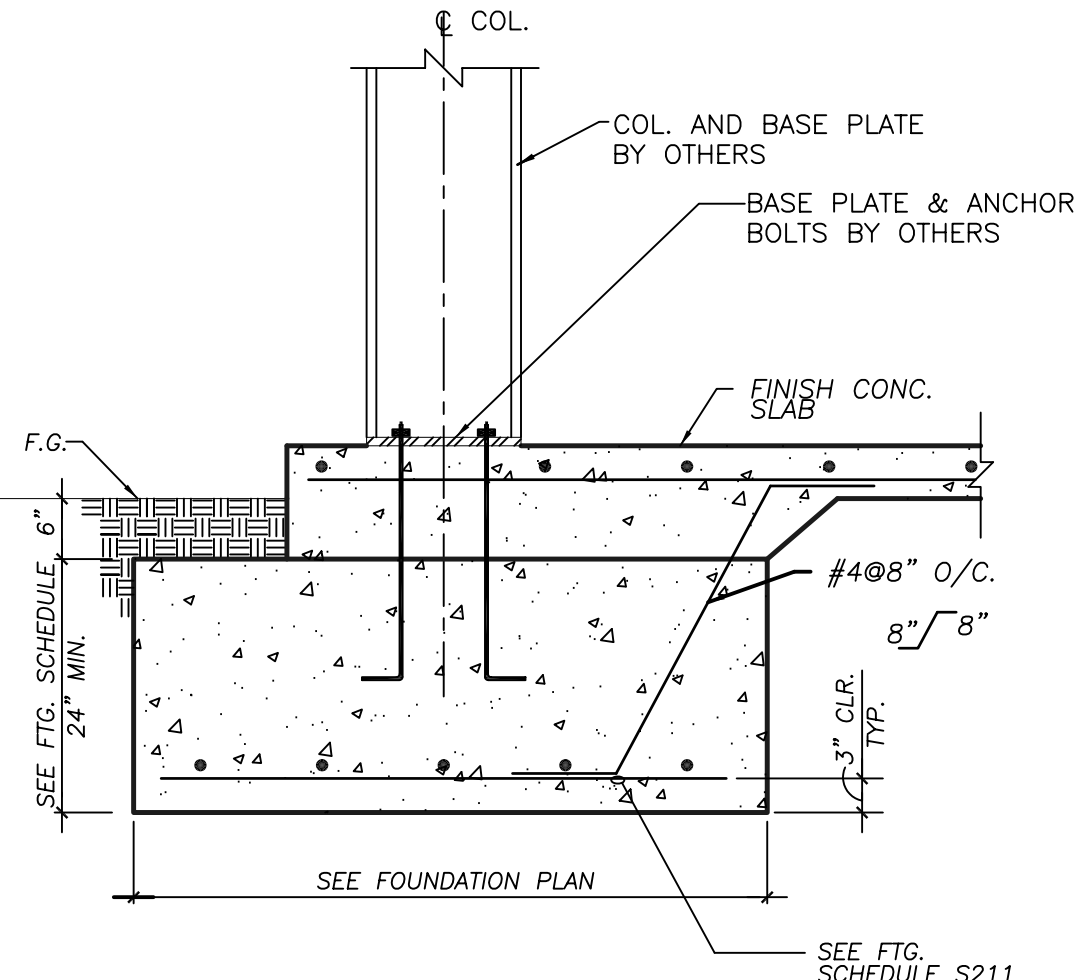
Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

STORAGE BUILDING
FOUNDATION
PLAN

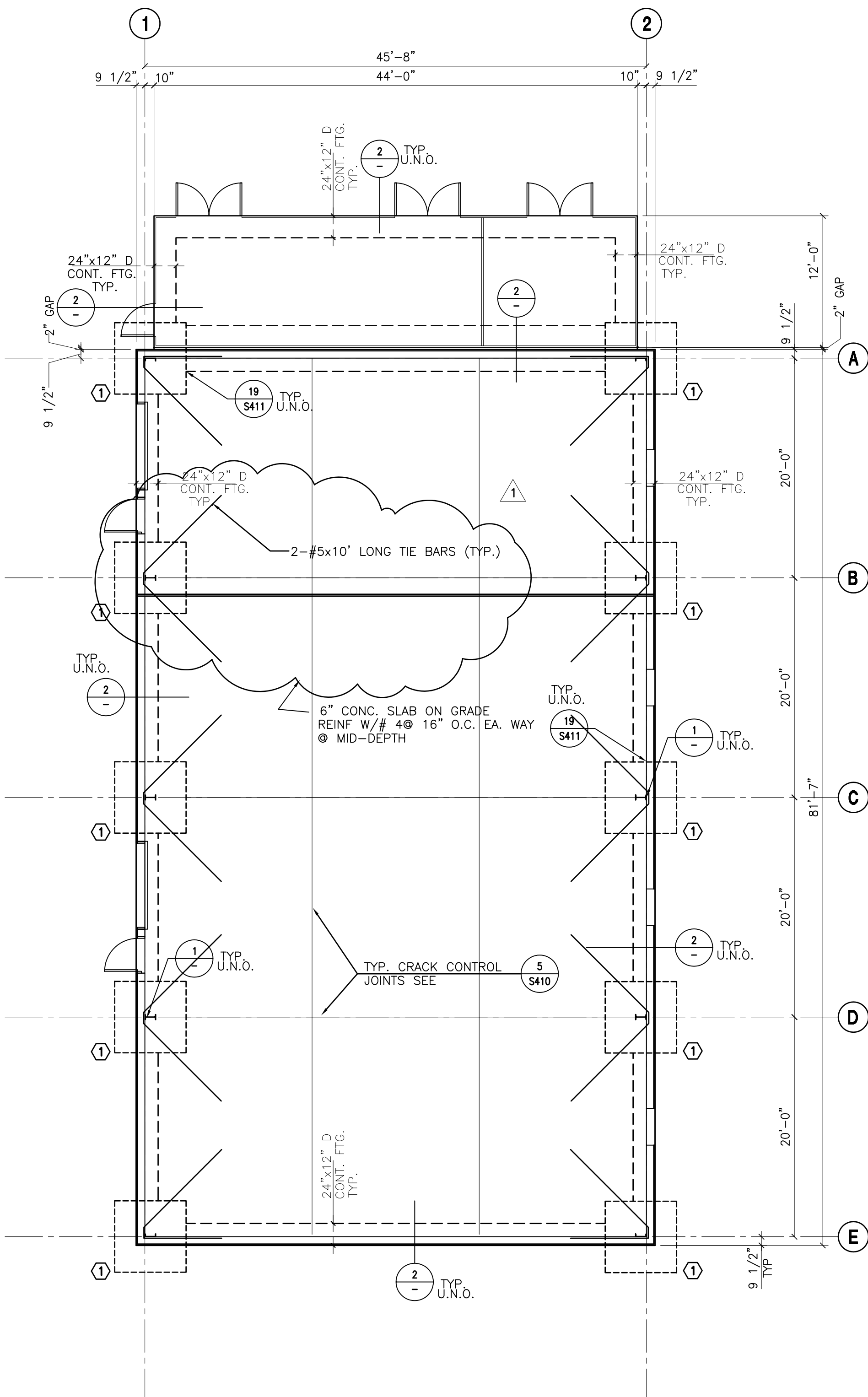
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Checked By:



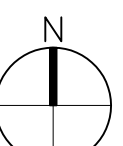
2 FOOTING • STORAGE BUILDING



1 FOOTING • STORAGE BUILDING



A STORAGE BUILDING FOUNDATION PLAN
SCALE: 1/8"=1'-0"

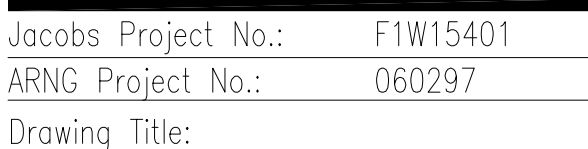


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DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

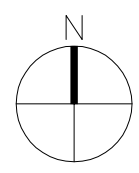
Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2



AM-0

S220



1. FINISHED FLOOR ELEVATION = 15'-6"

2. DESIGN FLOOR LOADS:

DEAD LOAD: 65 PSF

LIVE LOAD: 80 PSF

PARTITION LOAD: 20 PSF

3. TRUSS MANUFACTURER SHALL SUBMIT OPEN WEB TRUSS JOIST AND GIRDER CALCULATIONS AND KEY PLANS TO PROJECT ENGINEER FOR REVIEW AND TO THE CITY FOR APPROVAL PRIOR TO FABRICATION. REFER TO SPRINKLER CONTRACTOR DRAWINGS FOR ALL SPRINKLER PIPE LOCATIONS, WEIGHT AND ALL ASSOCIATED SEISMIC BRACE LOADS. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND WEIGHT OF ALL FLOOR TOP EQUIPMENTS.

4. ALL TRUSSES, PURLINS AND GIRDERS SHALL BE BRIDGED AND/OR BRACED ACCORDING TO MANUFACTURERS RECOMMENDATION.
5. TRUSS SEAT HEIGHT SHALL BE AS FOLLOWS (U.N.O.):

SELECTION CRITERIA FOR TRUST

6. DEFLECTION CRITERIA FOR TRUSS:

$$\begin{aligned}\Delta_{LL} &= L/360 \\ \Delta_{TL} &= L/240\end{aligned}$$

- A. STEEL DECK SHALL BE WELDED TO SUPPORT BEAMS WITH EFFECTIVE 1/2" CENTERLINE ARC SPOT (PUDDLE) WELDS OR 3/8" X 1" LONG WELDS SPACED NOT MORE THAN 12" ON CENTER (UNLESS NOTED ON PLANS) ACROSS THE WIDTH OF THE UNIT.

- B. CONTRACTOR TO VERIFY DECK SHORING REQUIREMENTS WITH STEEL DECK MANUFACTURER.

7. FLOOR DECK:

USE "VERCO" OR APPROVED EQUAL 20 GA. (GALV.) W3
FORMLOCK METAL DECKING OR EQUAL WITH 4 WELDS
PER SHEET TO SUPPORT & PUNCHLOCK
AT 24" O.C. AT SIDELAPS OVERLAID BY 2 1/2"
OF LIGHT WT. (5 1/2" TOTAL DEPTH) (Wc=115pcf)
CONCRETE FILL W/ F'c=3000 psi @ 28 DAYS
REINFORCED WITH #3 @ 18" O.C. EACH WAY

ASSEMBLY HALL

1. FOR DUCT SUPPORT SEE DET.15/S413;
FOR LOCATION SEE ARCH'L DWG. A.522

Seal:

METAL DECK NOTES:

- A. USE "VERCO" OR APPROVED EQUAL 20 GA. (GALV.) HSB-36 (SEE PLAN),
FORMLOCK METAL DECKING OR EQUAL WITH 4 WELDS
PER SHEET TO SUPPORT & TSW
AT 12" O.C. AT SIDELAPS

- B. STEEL DECK SHALL BE WELDED TO SUPPORT BEAMS WITH EFFECTIVE 1/2" CENTERLINE ARC SPOT (PUDDLE) WELDS OR 3/8" X 1" LONG WELDS SPACED NOT MORE THAN 6" ON CENTER (UNLESS NOTED ON PLANS) ACROSS THE WIDTH OF THE UNIT.

- C. CONTRACTOR TO VERIFY DECK SHORING REQUIREMENTS WITH STEEL DECK MANUFACTURER.

ROOF FRAMING NOTES:

1. DESIGN ROOF LOADS (U.N.O.)

- A. PURLINS @ 8'-0" O.C.
DEAD LOAD = 16 PSF
LIVE LOAD = 20 PSF (SNOW LOAD, NON-REDUCIBLE)
UPLIFT LOAD = 20 PSF

- B. GIRDERS:
DEAD LOAD = 16 PSF
LIVE LOAD = 20 PSF (SNOW LOAD, NON-REDUCIBLE)
UPLIFT LOAD = 12 PSF (GROSS)

- C. ALL TRUSS AND GIRDERS SHALL HAVE SJI STANDARD CAMBERS.

2. TRUSS MANUFACTURER SHALL SUBMIT OPEN WEB TRUSS PURLIN AND GIRDER CALCULATIONS AND KEY PLANS TO PROJECT ENGINEER FOR REVIEW AND TO THE CITY FOR APPROVAL PRIOR TO FABRICATION. REFER TO SPRINKLER CONTRACTOR DRAWINGS FOR ALL SPRINKLER PIPE LOCATIONS, WEIGHT AND ALL ASSOCIATED SEISMIC BRACE LOADS. UPGRADE ALL ROOF TRUSSES AND GIRDS FOR ALL MECHANICAL AND SPRINKLER LOADS AS SHOWN ON MECHANICAL AND SPRINKLER DRAWINGS.

3. ALL TRUSSES, PURLINS AND GIRDERS SHALL BE BRIDGED AND/OR BRACED ACCORDING TO MANUFACTURERS RECOMMENDATION.


4. TRUSS SEAT HEIGHT SHALL BE AS FOLLOWS (U.N.O.):

5. ALL ROOF TRUSS PURLINS AND GIRDERS SHALL HAVE SEAT SLOPE ACCORDING TO ROOF ELEVATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.

6. DEFLECTION CRITERIA:
- LIVE LOAD DEFLECTION $\leq L/240$
TOTAL LOAD DEFLECTION $\leq L/180$

7. INDICATES BOTTOM OF SHEATHING ELEVATION. GENERAL CONTRACTOR SHALL VERIFY ALL ROOF ELEVATIONS WITH ARCH'L DWGS. AND NOTIFY THE ARCHITECT AND OR ENGINEER IF ANY DICREPANCIES ARISES PRIOR TO CONSTRUCTION.

8. REFER TO ARCHITECTURAL DRAWINGS FOR SKYLIGHT LOCATIONS.

9.  CONTRACTOR SHALL VERIFY LOCATION OF ALL ROOF PENETRATIONS WITH APPROVED ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION. CONTACT STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

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Keyplan:

The diagram shows the layout of the Main Building, Sector #1, and Sector #2. The Main Building is a large rectangle with a hatched section on the left. Sector #1 is a smaller rectangle above Sector #2. A Storage Building is to the right. Various points are labeled with letters and numbers.

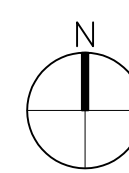
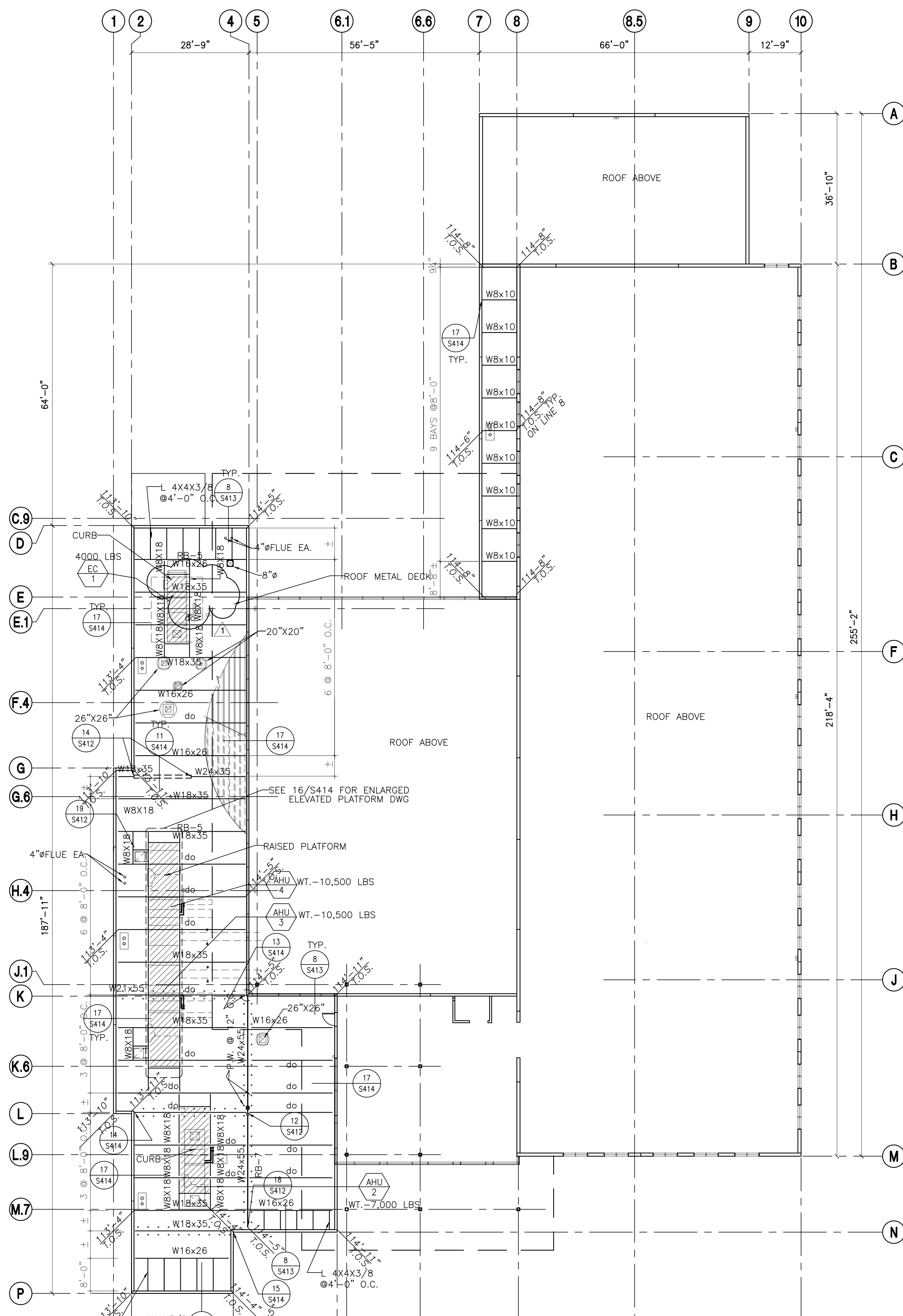
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SCALE: 1/16"=1'-0"

Jacobs Project No.:	F1W15401
ARNG Project No.:	060297
Drawing Title:	

**OVERALL
LOW ROOF
FRAMING PLAN**

AM-0:

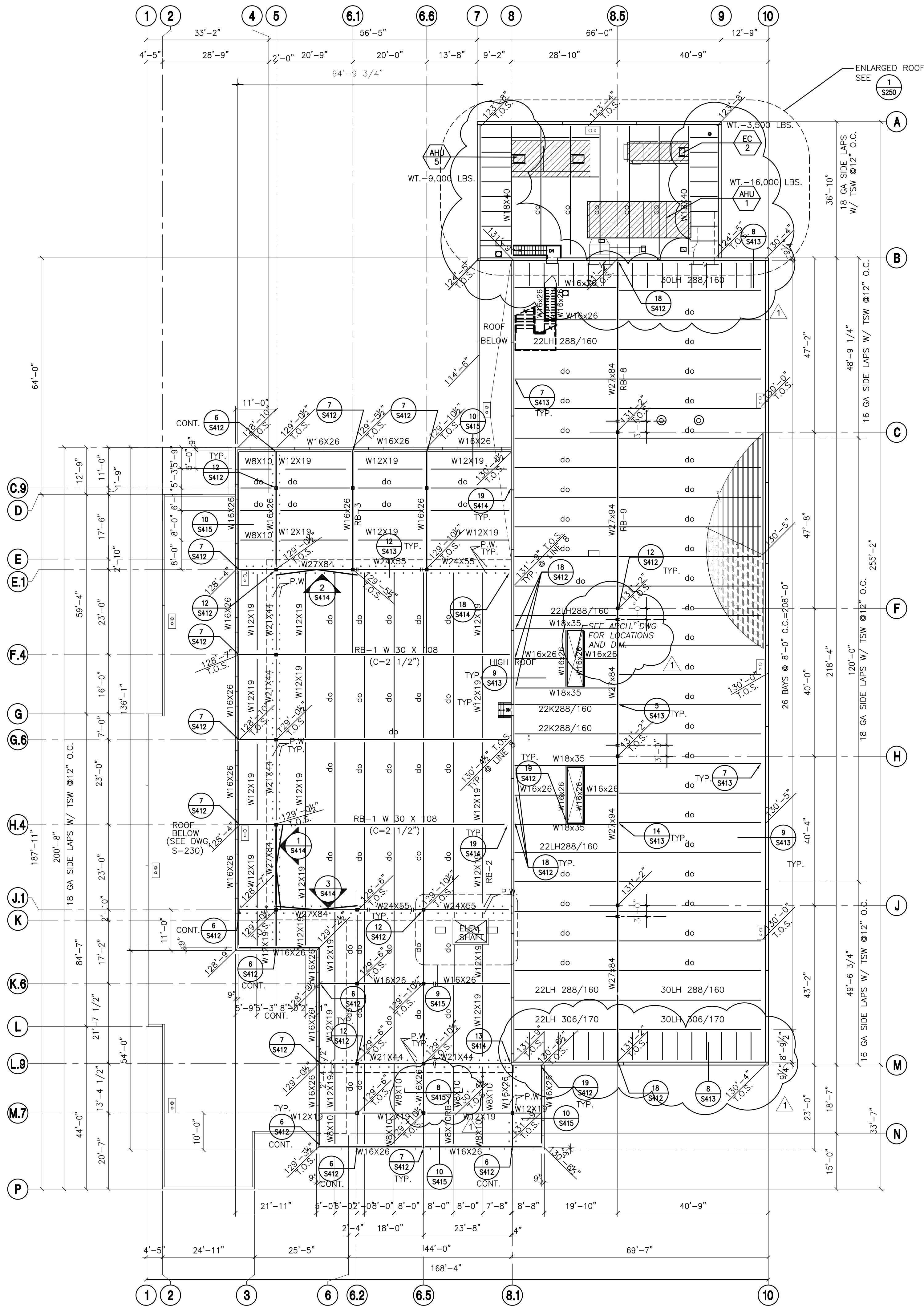
Designed By: W.M	Drawing No.
Drawn By:	S230
Checked By:	



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NG FILE NO. 200-25-153
SPEC. NO. 1406

DEPARTMENT OF THE ARMY
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SACRAMENTO, CALIFORNIA

1 OVERALL HIGH ROOF FRAMING PLAN
SCALE: 1/16"=1'-0"



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CITY OF LANCASTER, LOS ANGELES CO. CA.**



Keyplan:

Scale:

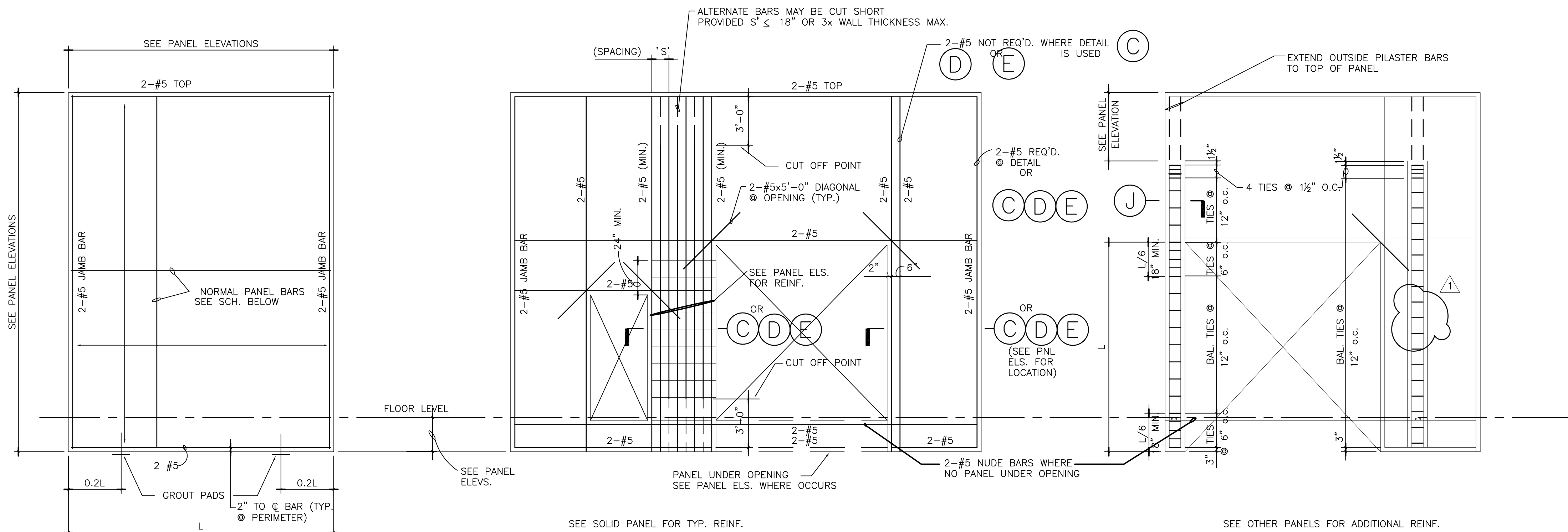
Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

**TYPICAL WALL
PANEL DETAILS**

Designed By: Drawn By: RR Checked By: Drawing No. **S300**

TYPICAL PANEL NOTES:

- ALL PANELS ARE VIEWED FROM INSIDE UNLESS NOTED OTHERWISE (U.N.O.)
- ALL PANELS ARE CAST WITH OUTSIDE FACE DOWN.
- CONCRETE CONTRACTOR SHALL VERIFY ALL CUTOUTS, SLEEVES, ETC. W/ PLUMBING, HEATING & ELECTRICAL CONTRACTORS.
- (U.N.O.) ALL PANELS SHALL HAVE A 3/4" CHAMFER ON ALL EDGES EXCEPT BOTTOM
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PANEL DIMENSIONS AS WELL AS THE LOCATION OF ALL EMBEDDED ITEMS, WITH ROOF AND FLOOR FRAMING PLANS PRIOR TO CASTING OF CONCRETE.
- PANEL STRESSES ARE TO BE CHECKED BY THE ERECTION CONTRACTOR WHO SHALL PROVIDE REINFORCING STEEL AS REQUIRED FOR HANDLING AND ERECTION. USE OF STRONGBACKS SHALL BE UTILIZED AT ALL EXCESSIVE OPENINGS.
- N.S. = NEAR SIDE
F.S. = FAR SIDE
E.S. = EACH SIDE
S = SPACING
L = CLEAR HEIGHT
T = GROSS PANEL THICKNESS
- REFER TO ARCHITECTURAL DRAWINGS FOR PAINT RELIEF.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL ROOF LEDGER ELEVATIONS WITH ARCHITECTURAL ROOF ELEVATIONS PLANS PRIOR TO CASTING OF CONCRETE PANELS. CONTRACTOR SHALL NOTIFY PROJECT ARCHITECT AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVER.
- GENERAL CONTRACTOR SHALL VERIFY ALL ROOF LEDGER ELEVATIONS AGAINST ARCHITECTURAL ROOF PLANS PRIOR TO SETTING ANY LEDGERS.
- CONCRETE PANEL CONTRACTOR TO PLACE TYPICAL JAMB BARS (SEE DETAIL A) AROUND ALL FUTURE KNOCK-OUTS.
- GENERAL CONTRACTOR SHALL VERIFY ALL BOTTOM PANEL DEPTHS WITH APPROVED CIVIL DRAWINGS TO ENSURE THAT PANEL DEPTHS MEET MINIMUM DEPTH REQUIREMENTS PER DETAILS ON SHEET SD-2. NOTIFY PROJECT ARCHITECT AND ENGINEER IMMEDIATELY IF ANY PANELS DO NOT MEET THE MINIMUM DEPTH REQUIREMENTS.
- MINIMUM CONCRETE COVER:
#8 BARS AND UNDER INCLUDING TIES - 1" COVER
#8 BARS AND ABOVE - 2" COVER
- THE DESIGN MUST BE APPROVED BY THE C.O.R. PRIOR TO THE MANUFACTURE OF THE PANEL AND SHALL BE DESIGN IN ACCORDANCE WITH ACI 318-02 CHAPTER 16 (OR LATEST EDITION).

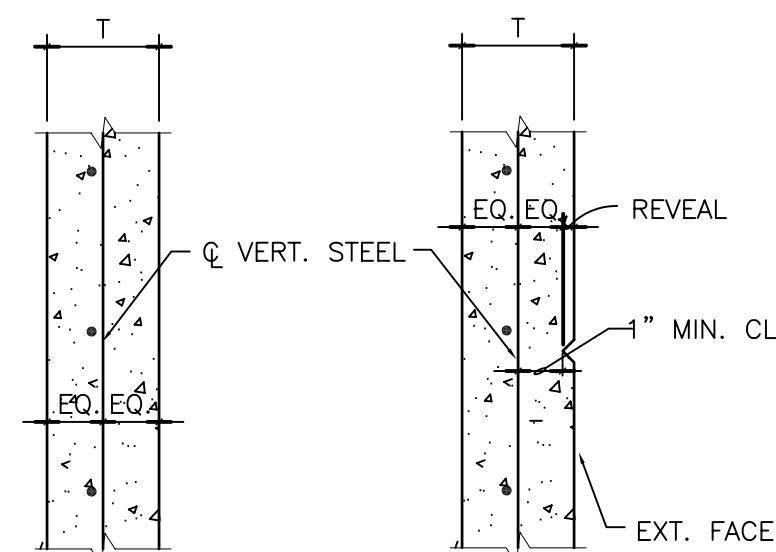


SOLID PANELS

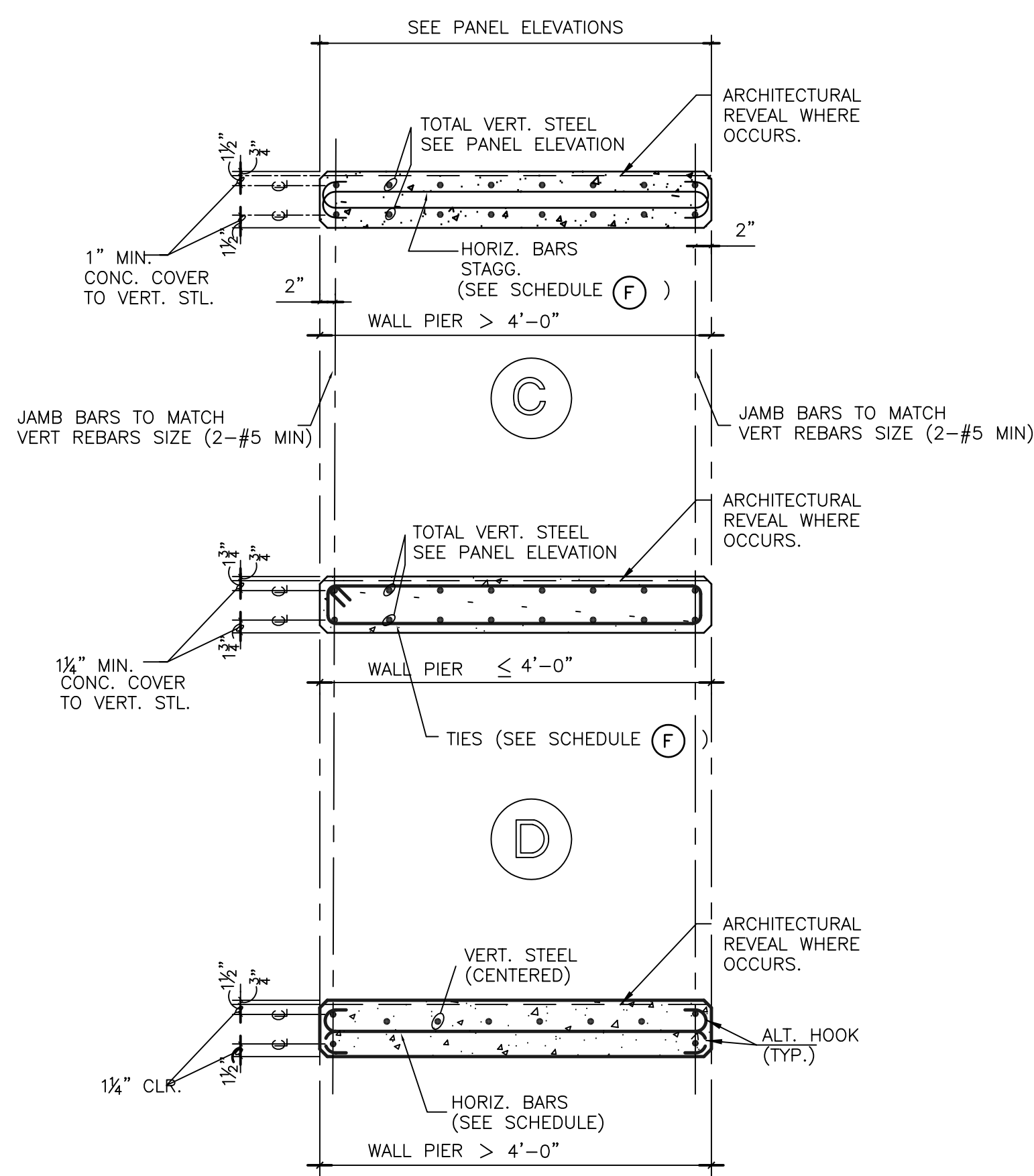
PANELS W/ OPENINGS

PANELS W/ PILASTERS AT OPENING

TYPICAL PANEL REINFORCEMENT (U.N.O.)

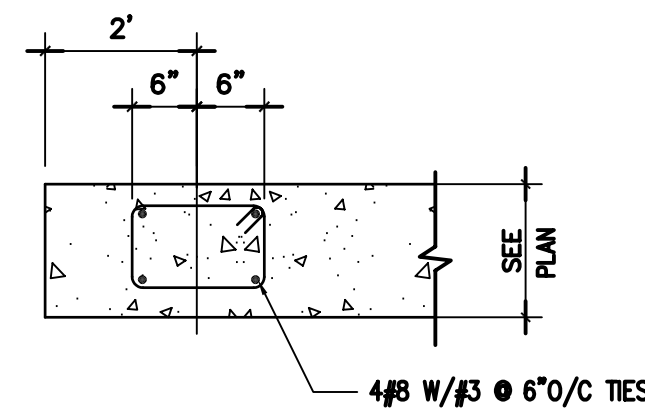


REBAR LOCATION



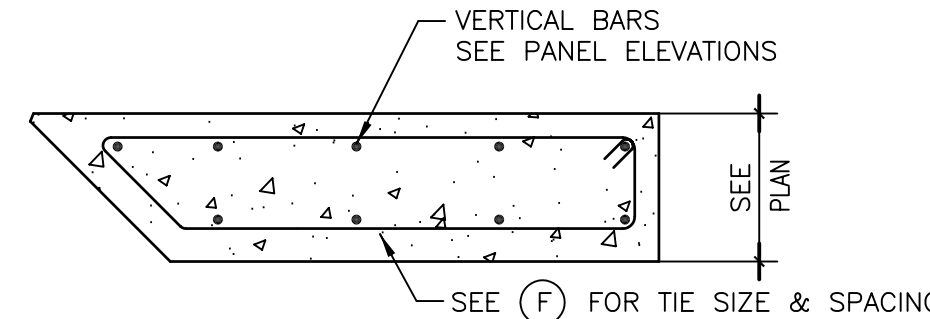
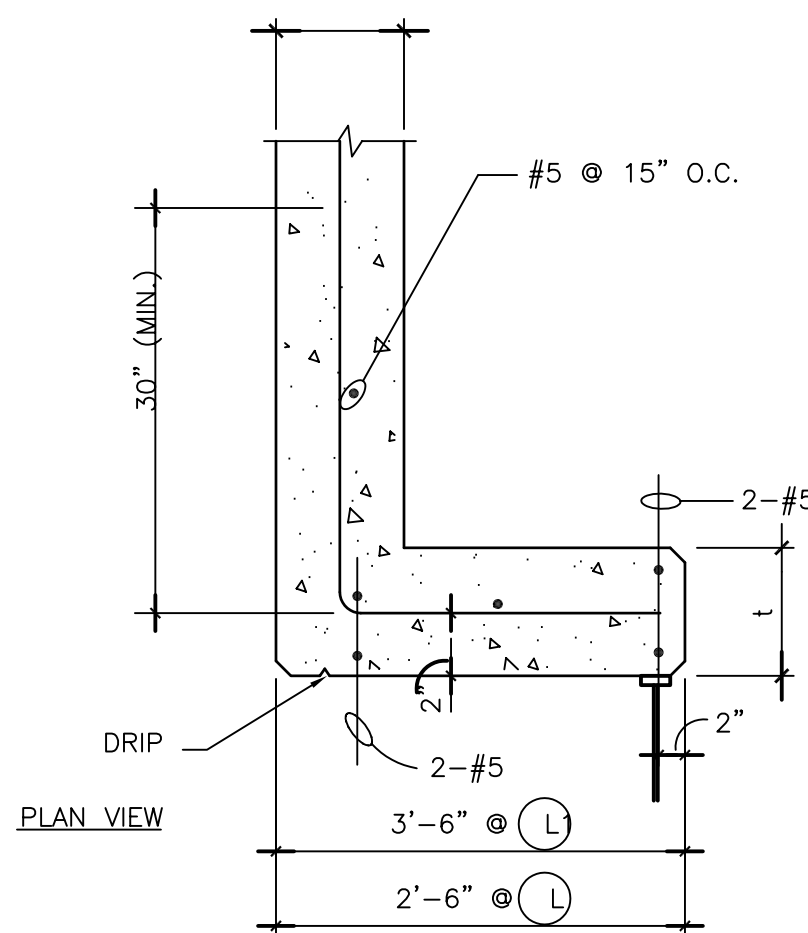
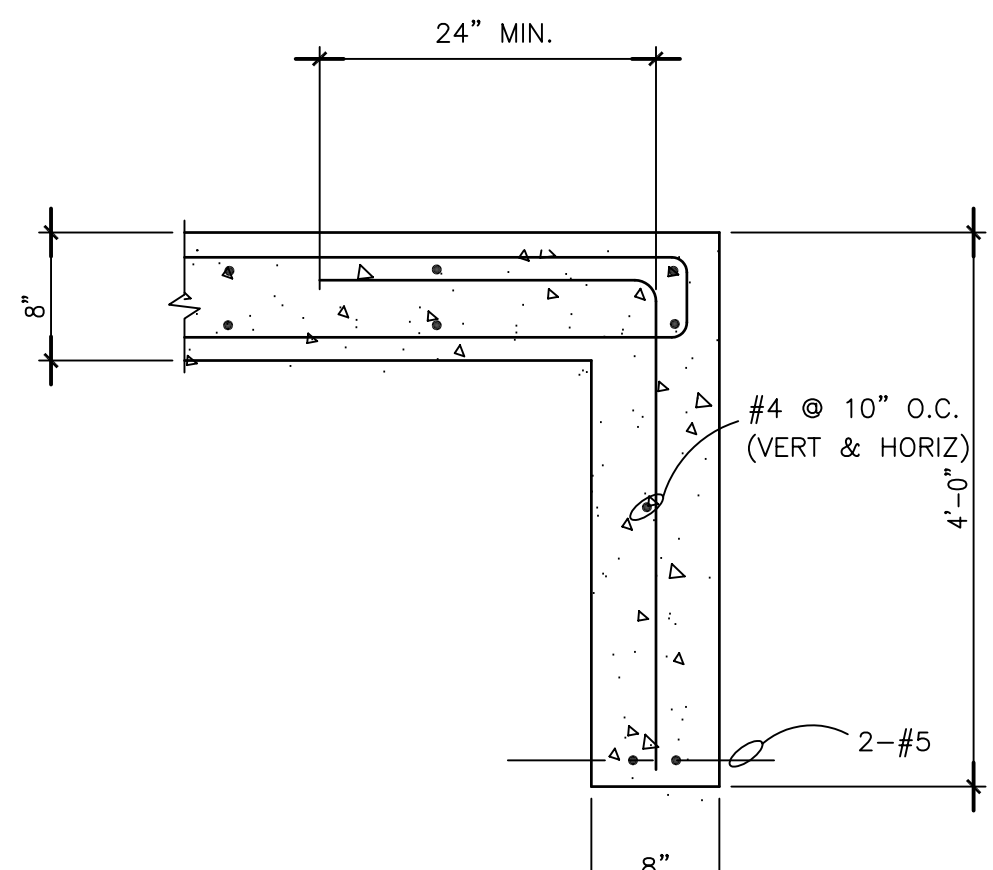
HORIZ. TIES OR HORIZ. REBAR SCH.		
1"	HORIZ. TIES (D)	HORIZ. STL (C, E)
7 1/2"	#3 @ 6"	#3 @ 6"
9 1/4"	#3 @ 6"	#4 @ 6"

FOR DETAIL (D) EXTEND TIES 42" MIN. BEYOND OPENING (U.N.O.)



4#8 W/ #5 @ 6" O.C. TIES

PANEL THICKNESS (t) & REINF. (U.N.O.)				
WALL PANELS	't'	VERT. STL.	HORIZ. STL.	F'c
SOLID PANEL 1, 16, 20	9 1/4"	#5 @ 10" O.C.	#5 @ 12" O.C.	4000 PSI
2 TO 15, 17 TO 19, 21	9 1/4"	#5 @ 12" O.C.	#5 @ 12" O.C.	4000 PSI
42 TO 46	9 1/4"	#5 @ 10" O.C.	#5 @ 12" O.C.	3000 PSI
47, 48, 49	8"	#5 @ 12" O.C.	#5 @ 12" O.C.	3000 PSI
12	9 1/4"	#5 @ 10" O.C.	#5 @ 10" O.C.	4000 PSI
SOLID PANEL 27, 28, 34	7 1/4"	#5 @ 12" O.C.	#5 @ 12" O.C.	3000 PSI
51, 55, 56, 58 TO 66				
28, 30 TO 33, 35 TO 41	7 1/4"	#5 @ 12" O.C.	#5 @ 12" O.C.	3000 PSI
47 TO 50, 52 TO 54, 57				
SHEAR WALL 51	7 1/4"	#5 @ 12" O.C.	#5 @ 12" O.C.	3000 PSI



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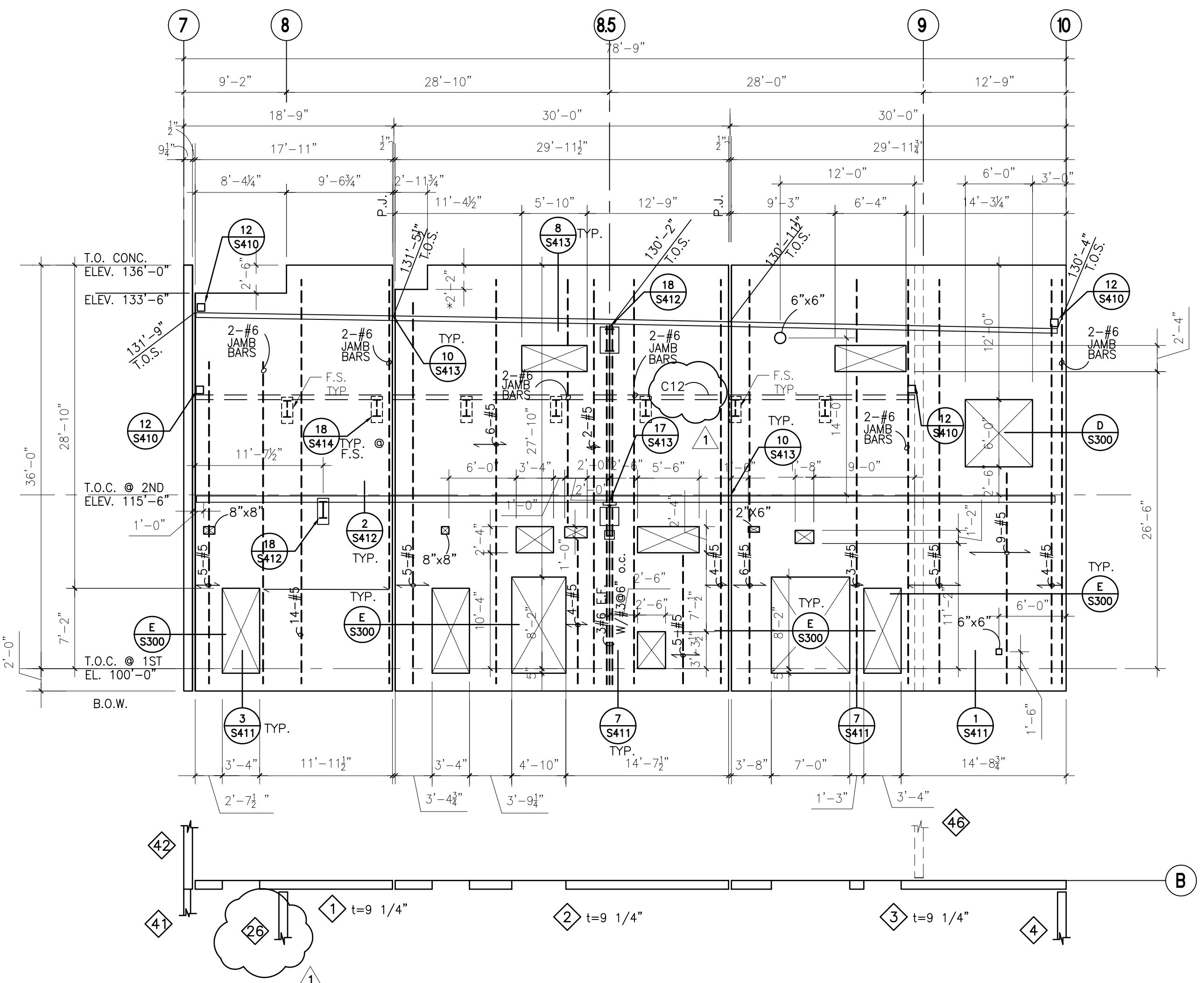
Keyplan:

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SCALE: 1/16"=1'-0"

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

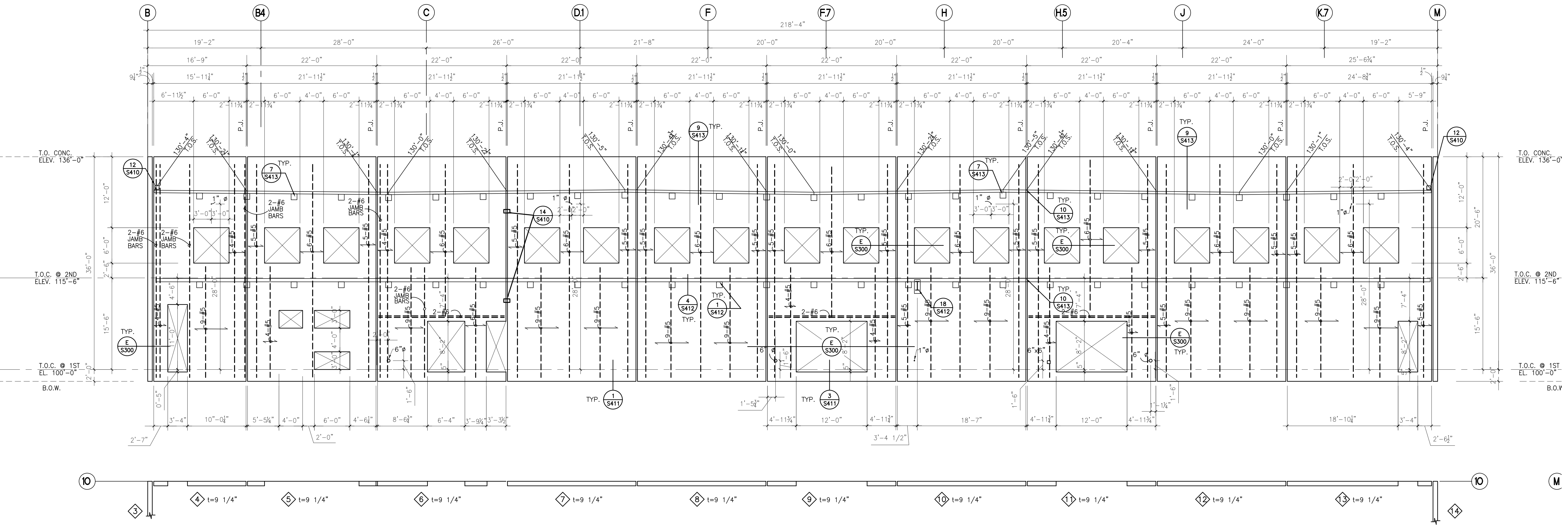
WALL PANEL
ELEVATION

Designed By: Drawn By: RR Checked By: Drawing No. **S301**



LEGEND

- FOW ----- FACE OF WALL
TOC ----- INDICATES TOP OF CONCRETE
F.F. ----- INDICATES FIRST FLOOR LINE
BOW ----- INDICATES BOTTOM OF WALL
BOS ----- INDICATES BOTTOM OF STEEL DECK
TOP ----- INDICATES TOP OF PILASTER
F.S. ----- INDICATES FAR SIDE OF WALL
T.O.S. ----- INDICATES TOP OF STEEL LEDGER
- NOTES
1. REFER TO ARCHITECTURAL FOR SCUPPER OPENINGS & EXTERIOR REVEALS.
2. SEE SHEET S300 FOR BALANCE OF REBARS NOT SHOWN IN THIS SHEET.



Seal:

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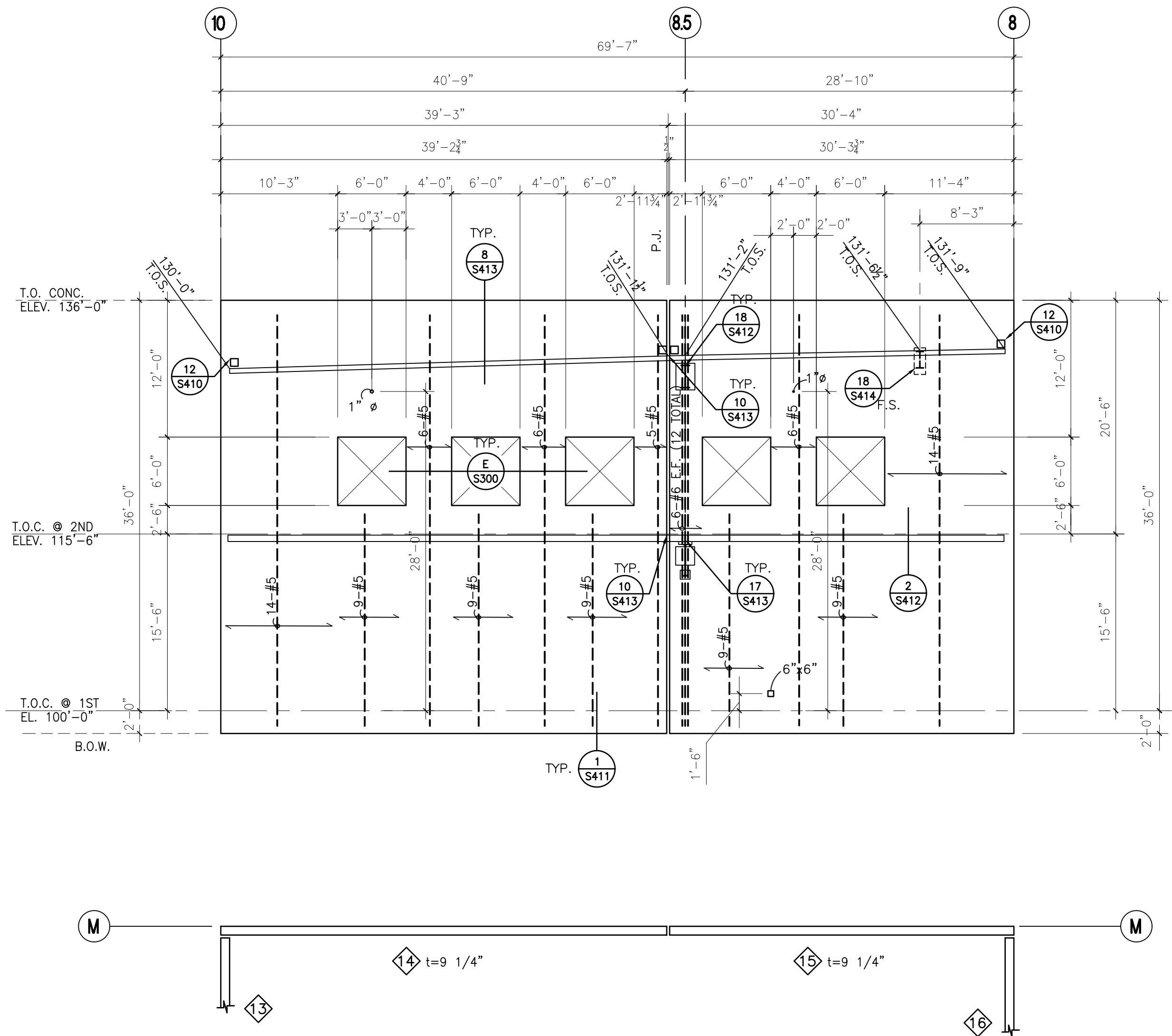
Keyplan:

Scale:
0 8' 16' 24' 32' 40'
SCALE: 1/16"=1'-0"

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

WALL PANEL
ELEVATION

Designed By: Drawn By: RR Checked By: Drawing No. **S302**

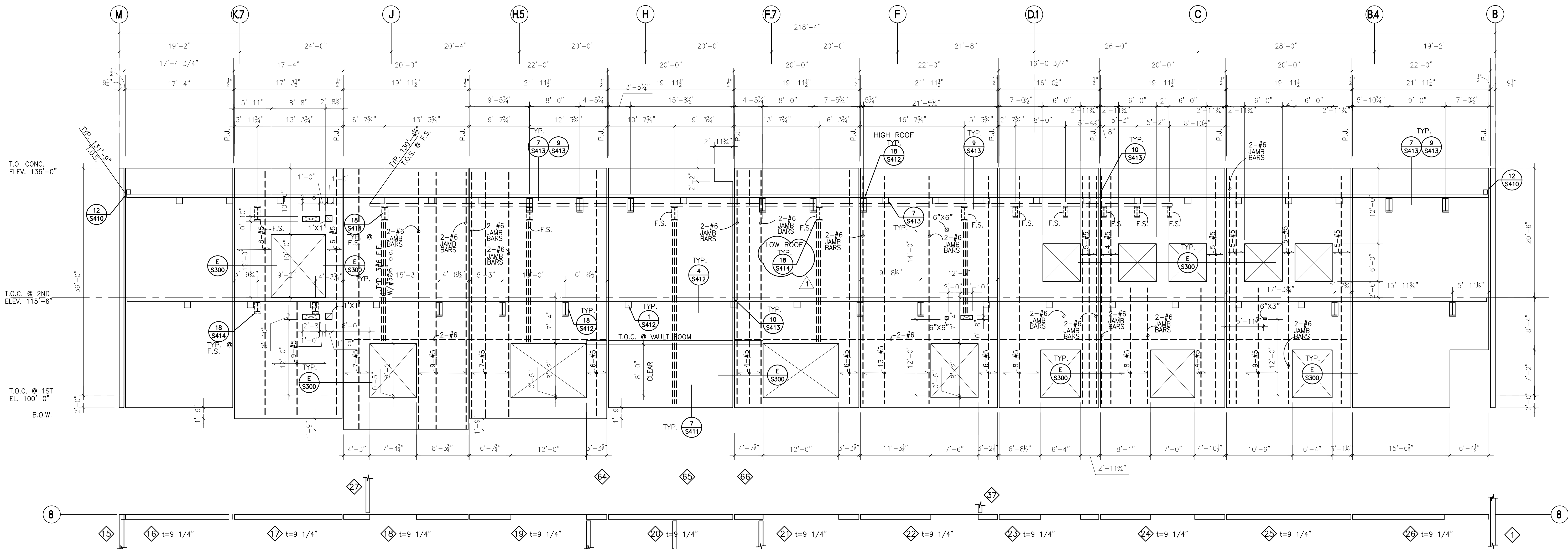


LEGEND

FOW ----- FACE OF WALL
TOC ----- INDICATES TOP OF CONCRETE
F.F. ----- INDICATES FIRST FLOOR LINE
BOW ----- INDICATES BOTTOM OF WALL
BOS ----- INDICATES BOTTOM OF STEEL DECK
TOP ----- INDICATES TOP OF PILASTER
F.S. ----- INDICATES FAR SIDE OF WALL
T.O.S. ----- INDICATES TOP OF STEEL LEDGER

NOTES

1. REFER TO ARCHITECTURAL FOR SCUPPER OPENINGS & EXTERIOR REVEALS.
2. SEE SHEET S300 FOR BALANCE OF REBARS NOT SHOWN IN THIS SHEET.



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Keyplan:

Scale:
0 8' 16' 24' 32' 40'
SCALE: 1/16"=1'-0"

Jacobs Project No.: FIW15401
ARNG Project No.: 060297
Drawing Title:

WALL PANEL
ELEVATION

Designed By: Drawn By: RR Checked By: Drawing No. **S303**

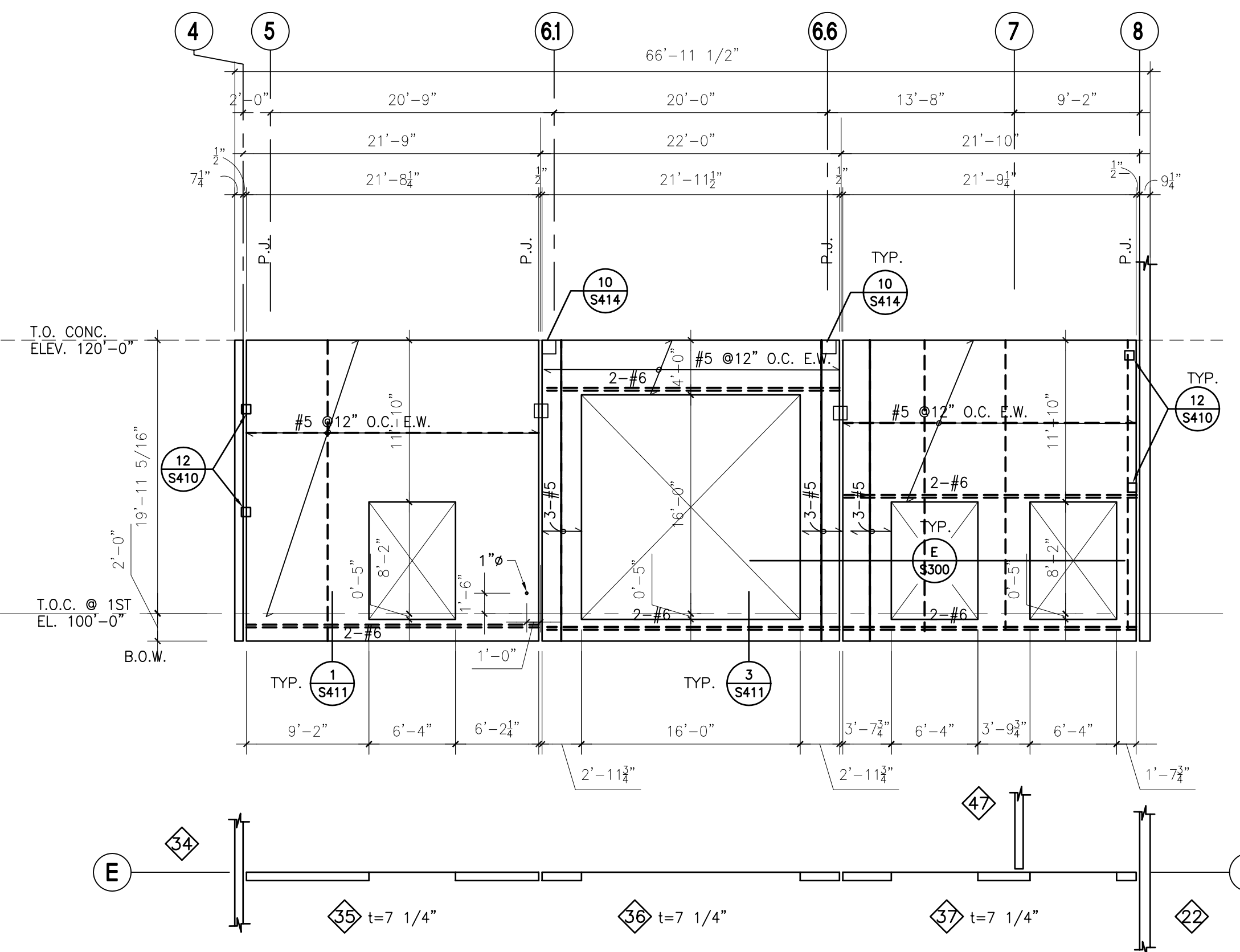
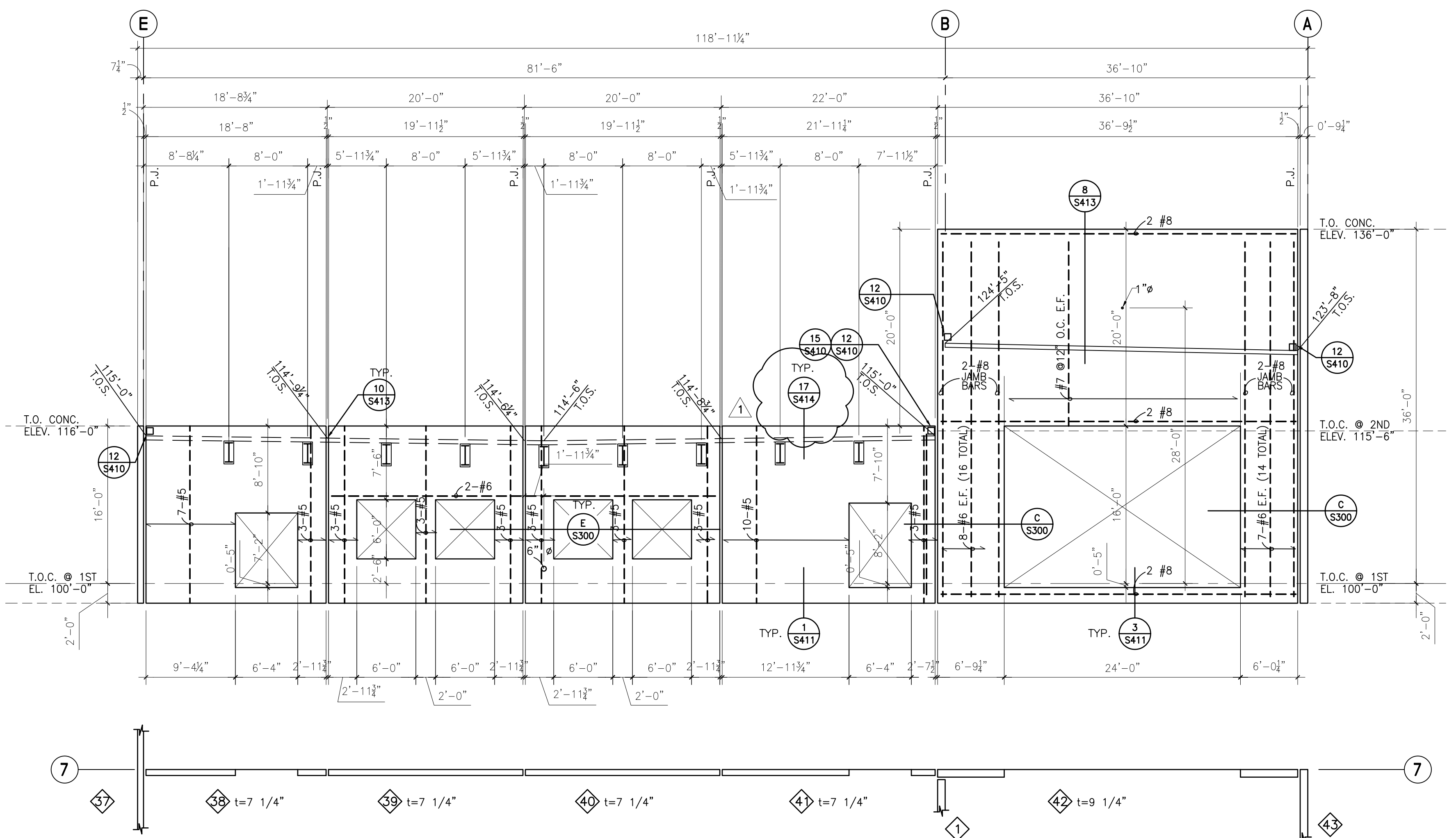
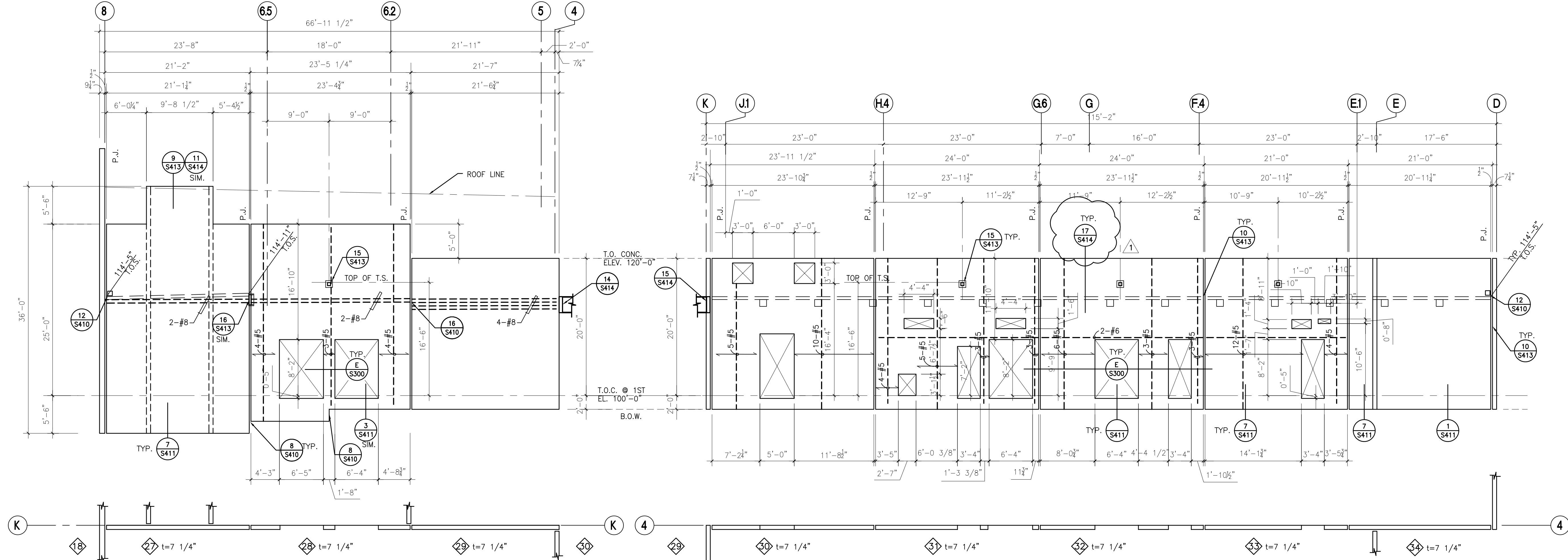
AM-02

LEGEND

FW ----- FACE OF WALL
TOC ----- INDICATES TOP OF CONCRETE
F.F. ----- INDICATES FIRST FLOOR LINE
BOW ----- INDICATES BOTTOM OF WALL
BOS ----- INDICATES BOTTOM OF STEEL DECK
TOP ----- INDICATES TOP OF PILASTER
F.S. ----- INDICATES FAR SIDE OF WALL
T.O.S. ----- INDICATES TOP OF STEEL LEDGER

NOTES

1. REFER TO ARCHITECTURAL FOR SCUPPER OPENINGS & EXTERIOR REVEALS.
2. SEE SHEET S300 FOR BALANCE OF REBARS NOT SHOWN IN THIS SHEET.




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Scale:
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SCALE: $1/16" = 1'-0"$

WALL PANEL ELEVATION

Drawing No.

S306



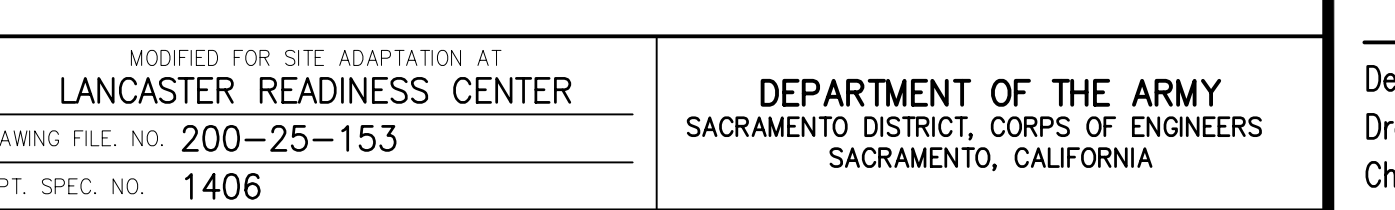
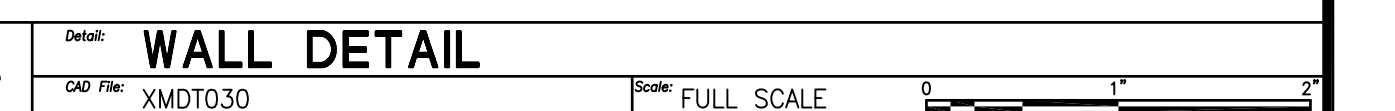
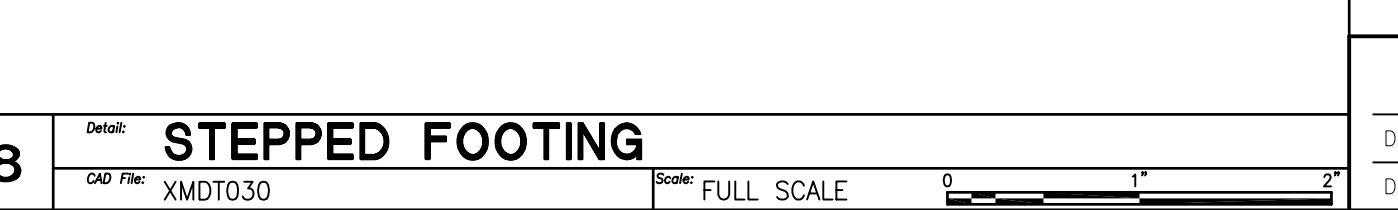
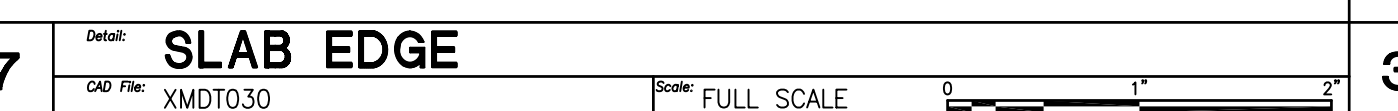
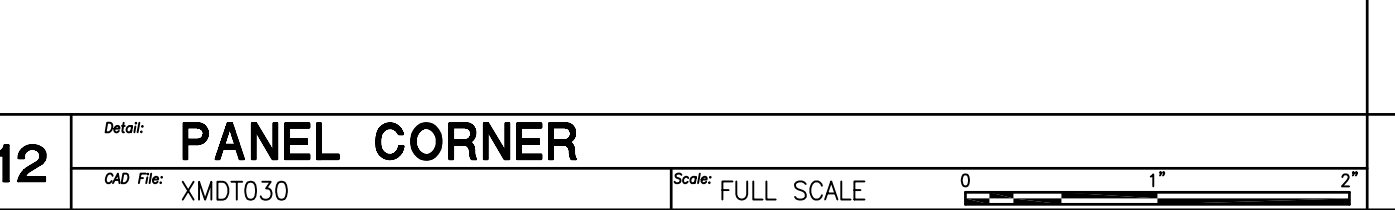
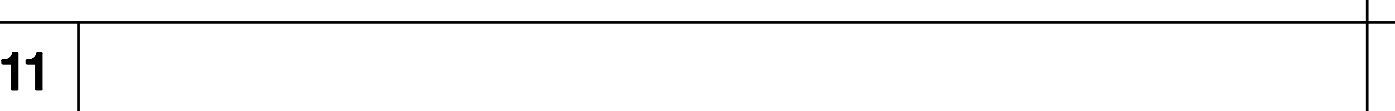
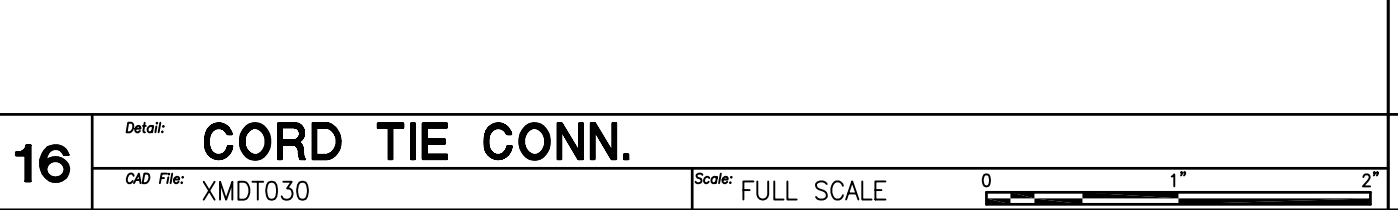
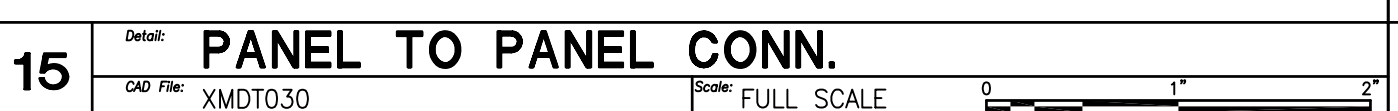
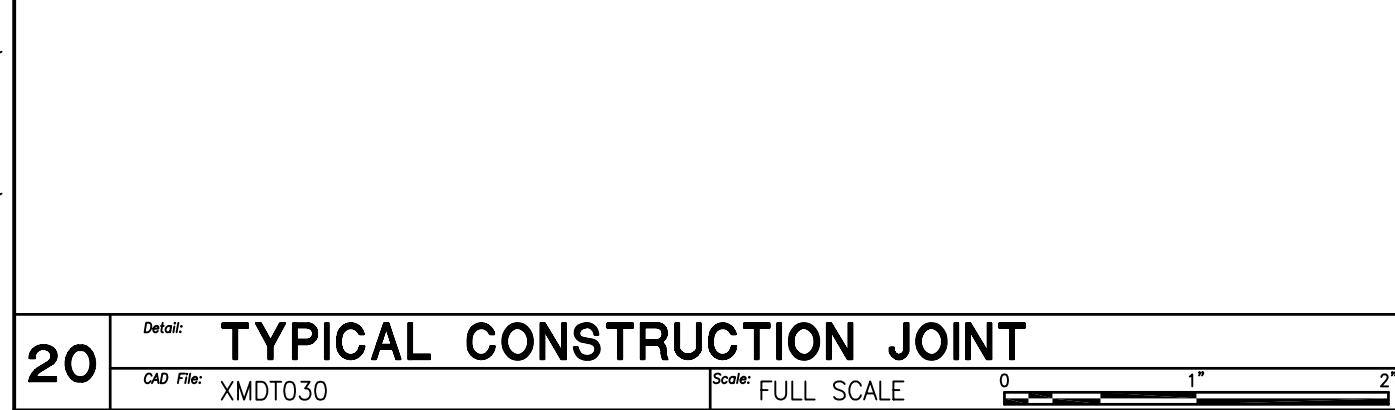
FOW	-----	FACE OF WALL
TOC	-----	INDICATES TOP OF CONCRETE
F.F.	-----	INDICATES FIRST FLOOR LINE
BOW	-----	INDICATES BOTTOM OF WALL
BOS	-----	INDICATES BOTTOM OF STEEL DECK
TOP	-----	INDICATES TOP OF PILASTER
F.S.	-----	INDICATES FAR SIDE OF WALL
T.O.S.	-----	INDICATES TOP OF STEEL LEDGER

NOTES

1. REFER TO ARCHITECTURAL FOR SCUPPER OPENINGS & EXTERIOR REVEALS.
2. SEE SHEET S300 FOR BALANCE OF REBARS NOT SHOWN IN THIS SHEET.



17	Detail: WELD SCHEDULE		
	CAD File: XMDT030 Scale: FULL SCALE		



Seal:

Revision:

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0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
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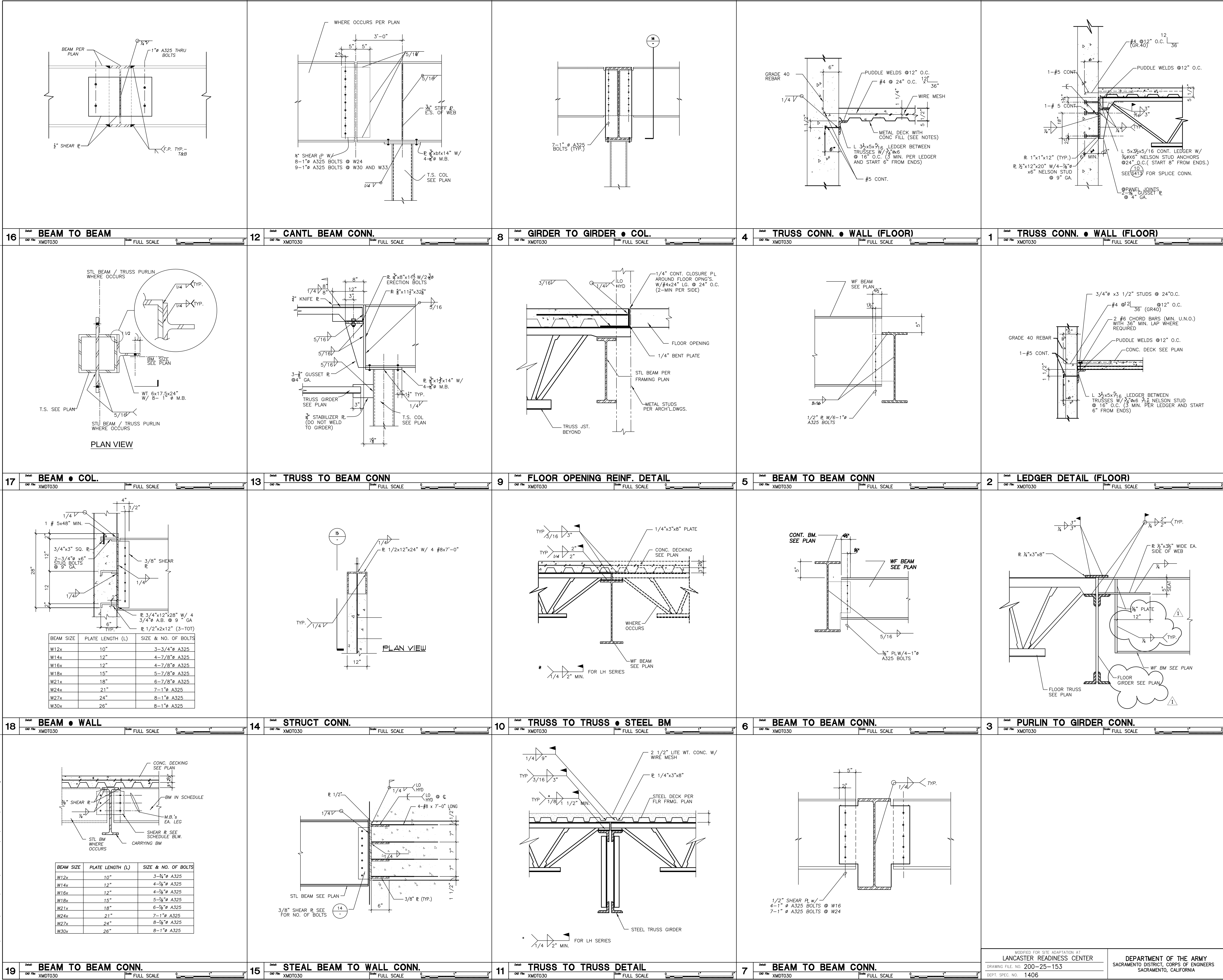
Keyplan:

Scale:

Jacobs Project No.: FIW15401
ARNG Project No.: 060297
Drawing Title:

STRUCTURAL DETAILS

Designed By: W.M Drawing No. AM-02
Drawn By: S412
Checked By:



Seal:

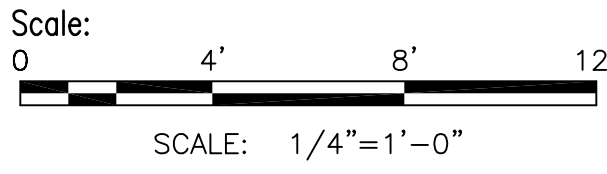
Revision:

No.	Date	By	Description
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Keyplan:

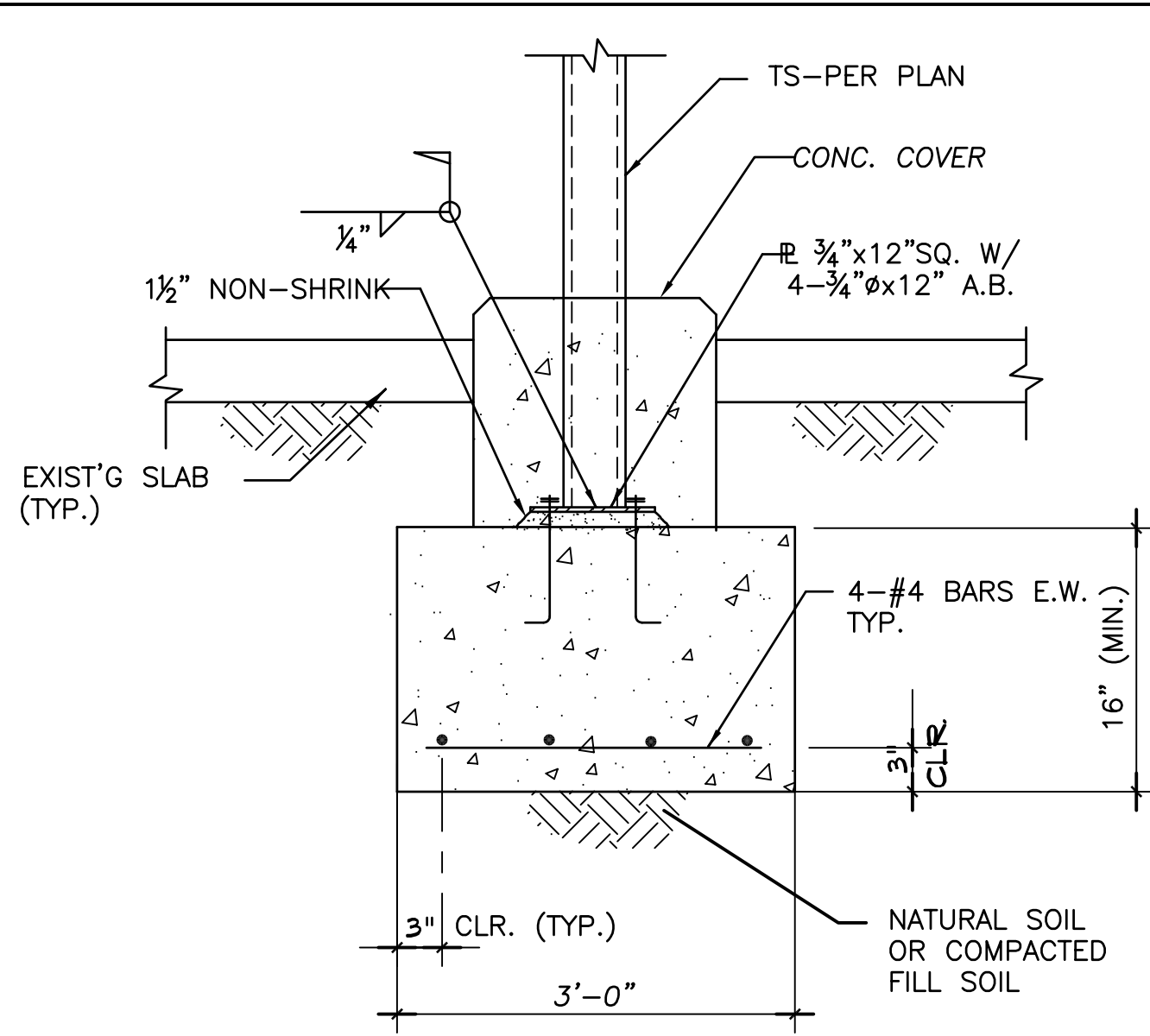


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ARNG Project No.: 060297
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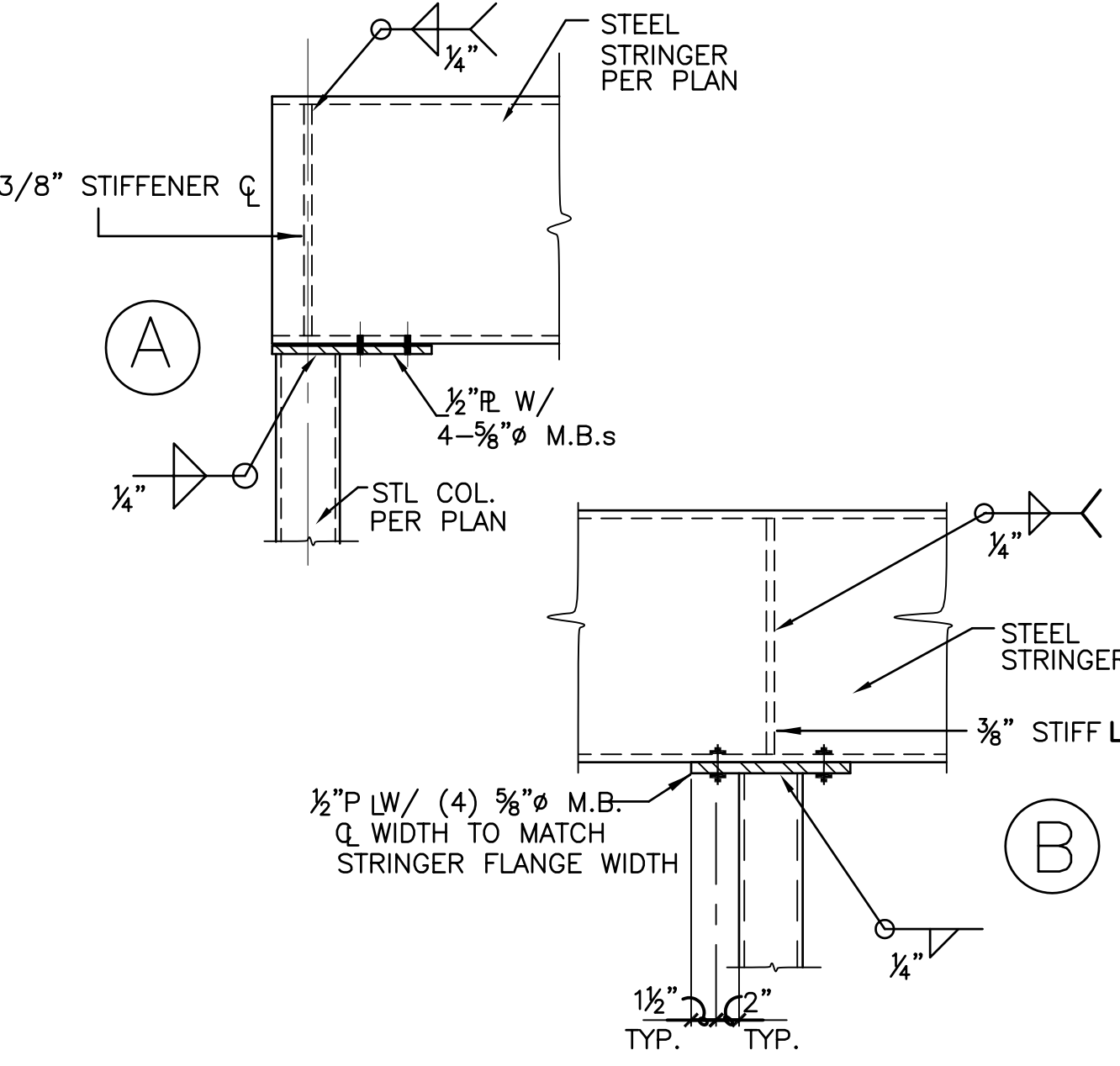
**STAIRS 1, 2, &
ROOF ACCESS
ENLARGED PLANS
& SECTIONS**

Designed By: RB
Drawn By: JE
Checked By: SD

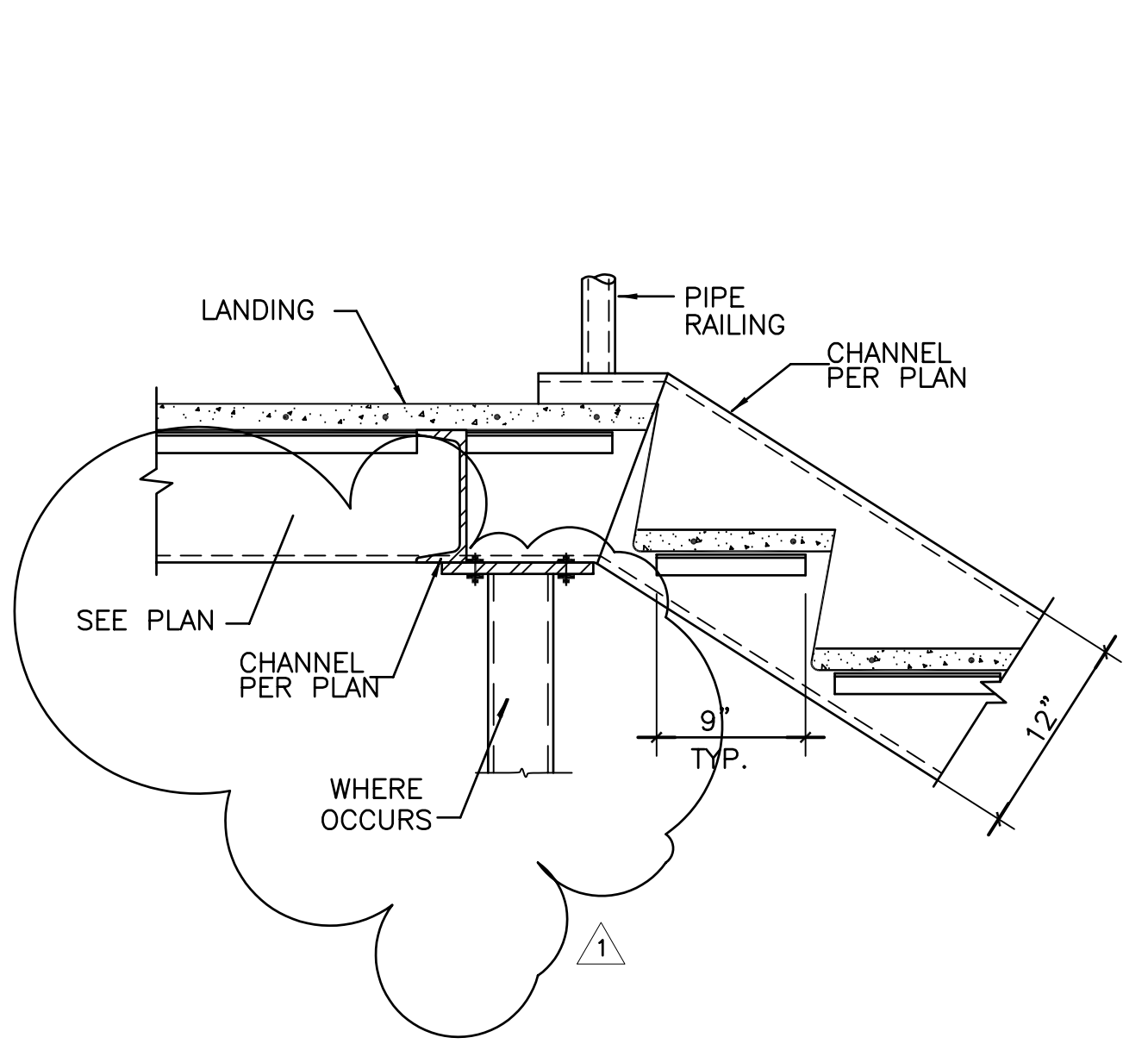
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S416



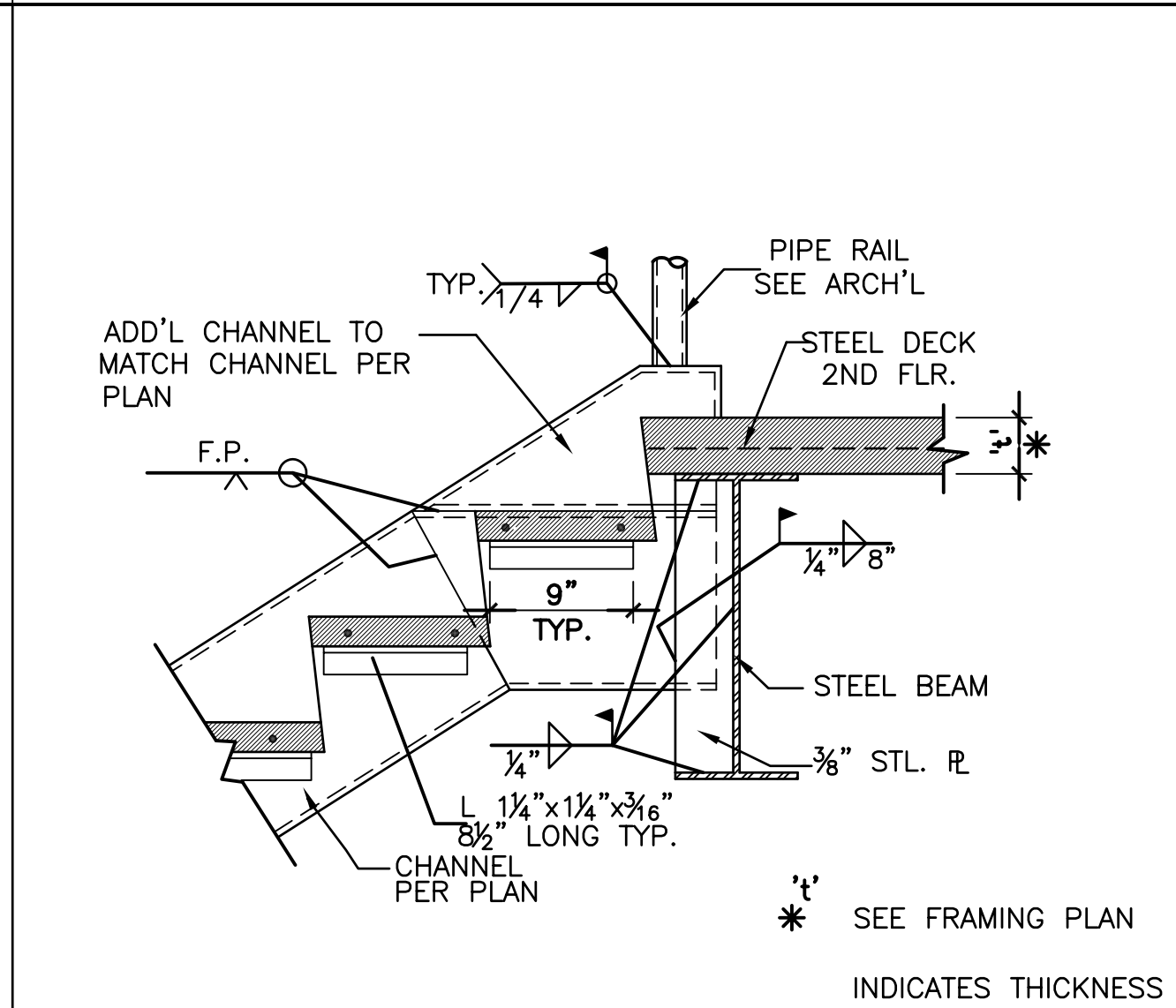
1 COLUMN TO FOOTING DETAIL



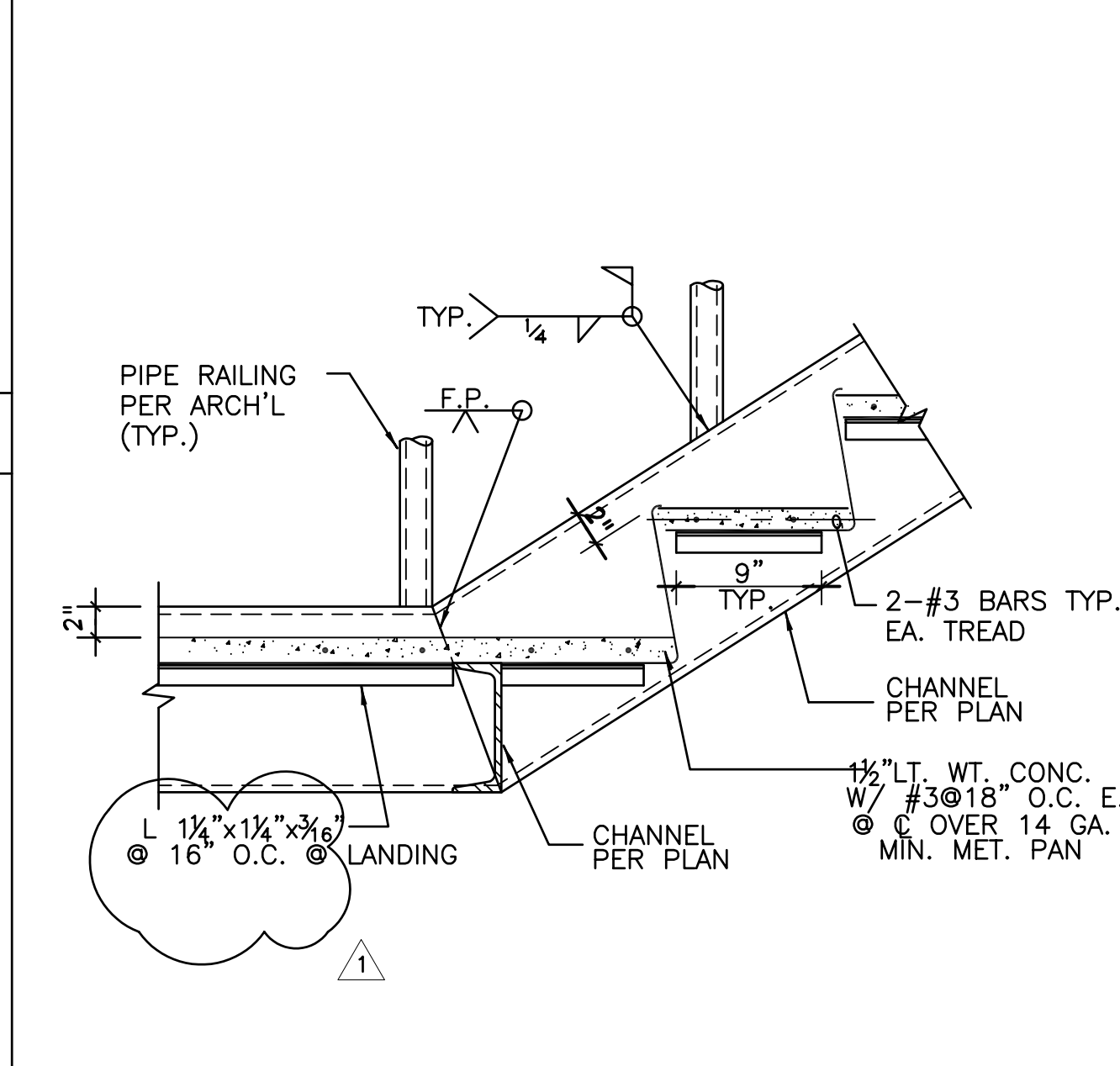
2 STRINGER TO COLUMN DETAIL



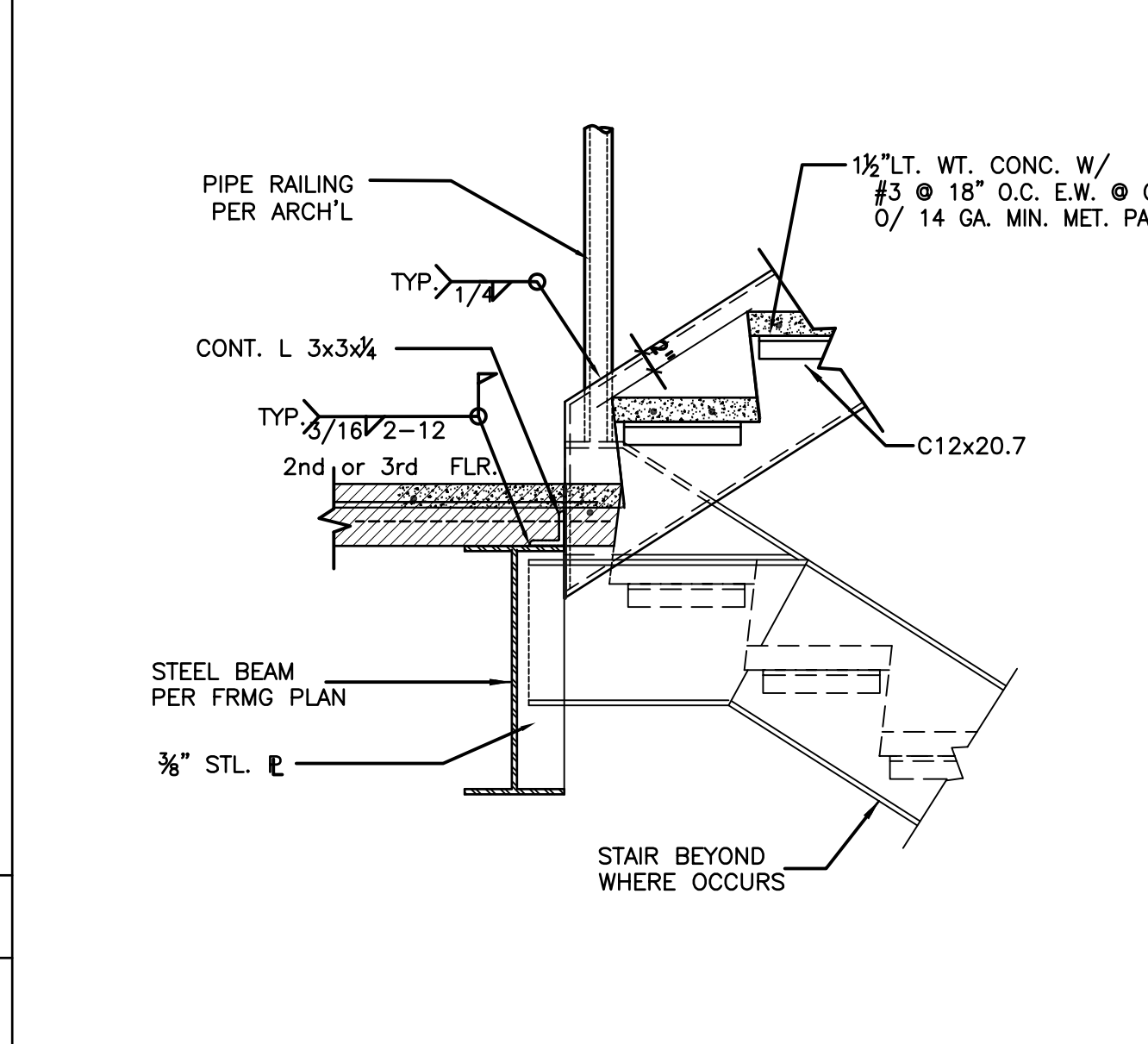
3 STEEL STRINGER • LANDING



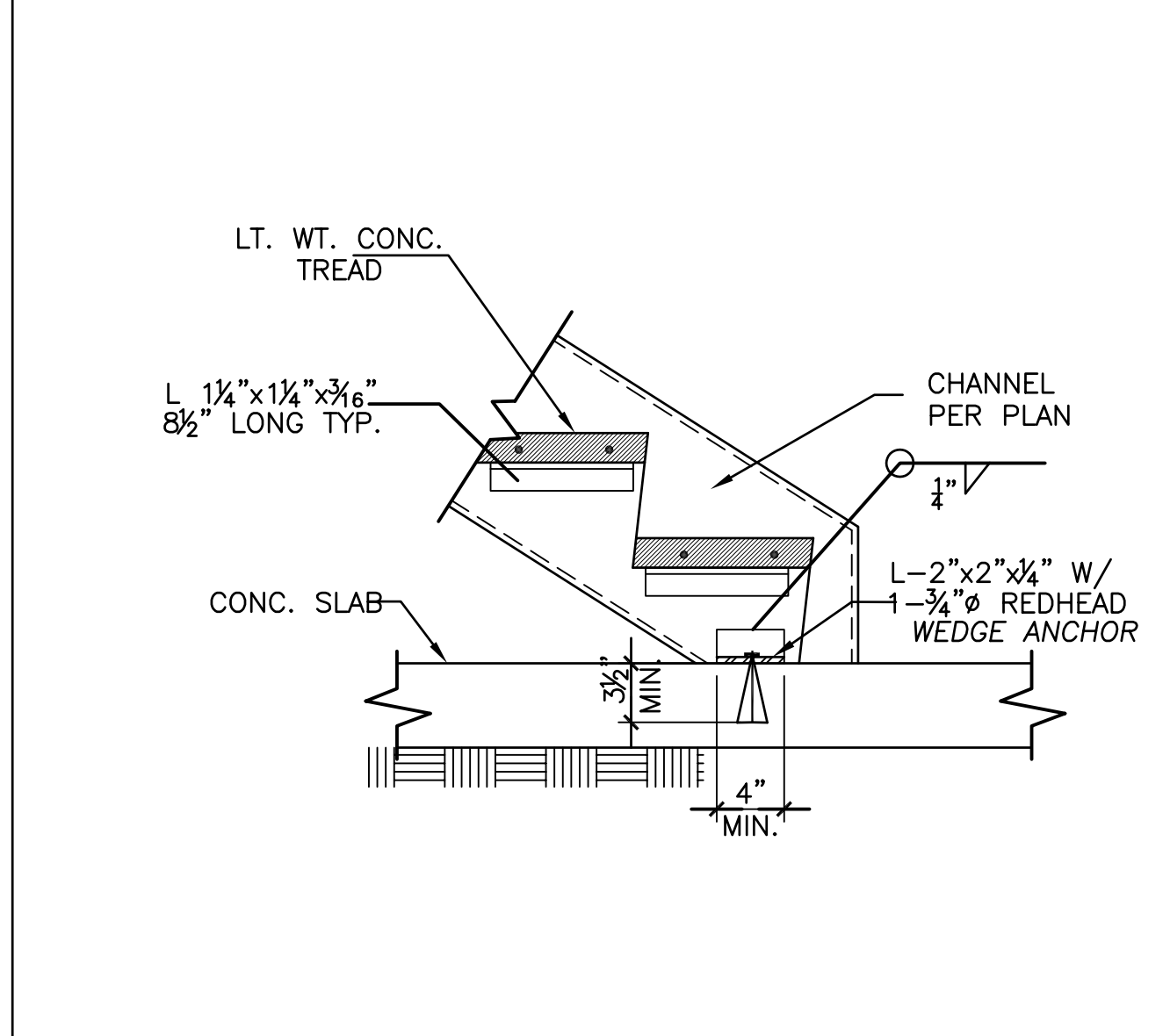
4 STAIR • 2nd. FLOOR GOING DOWN



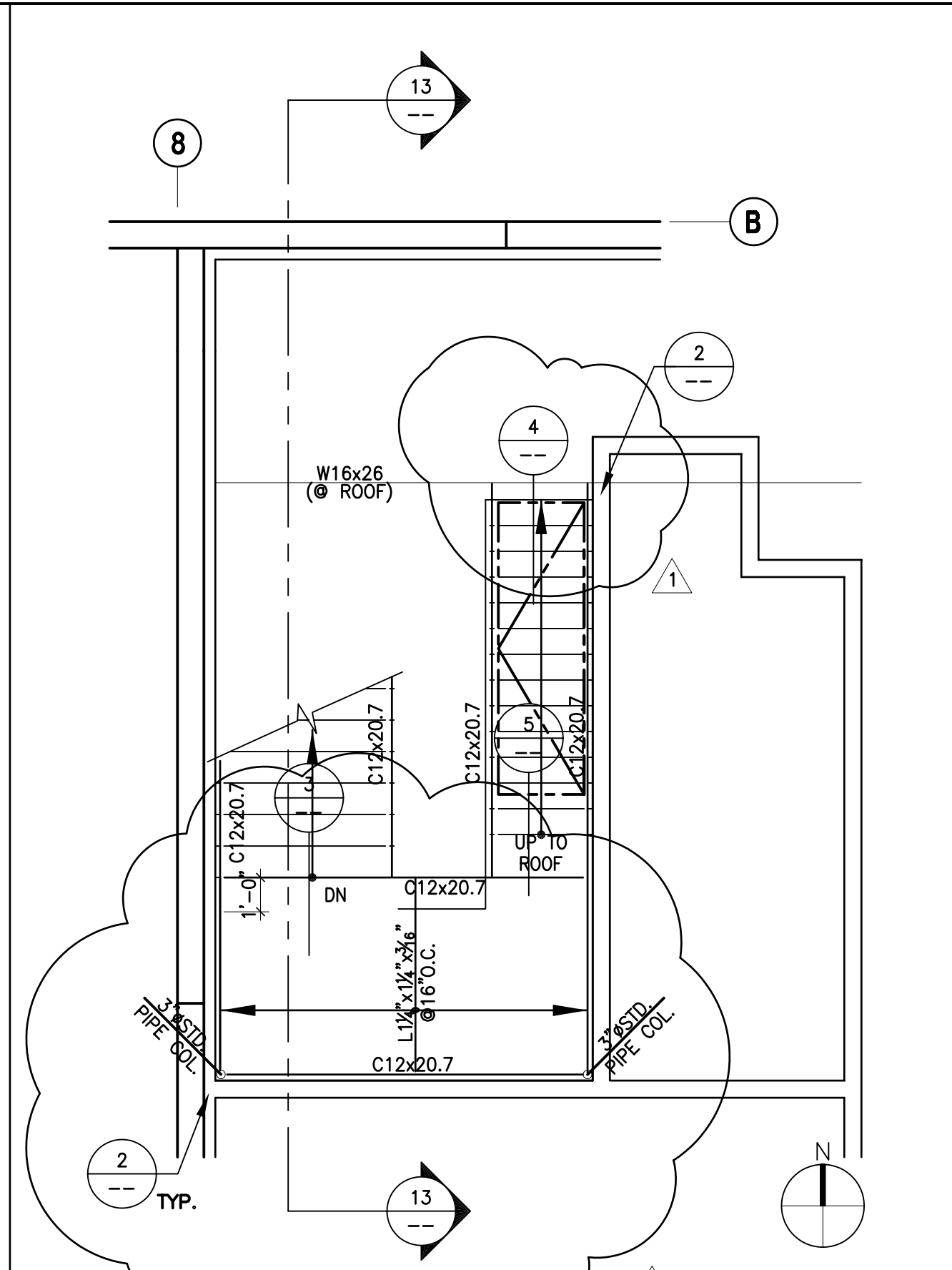
5 STEEL STRINGER • LANDING



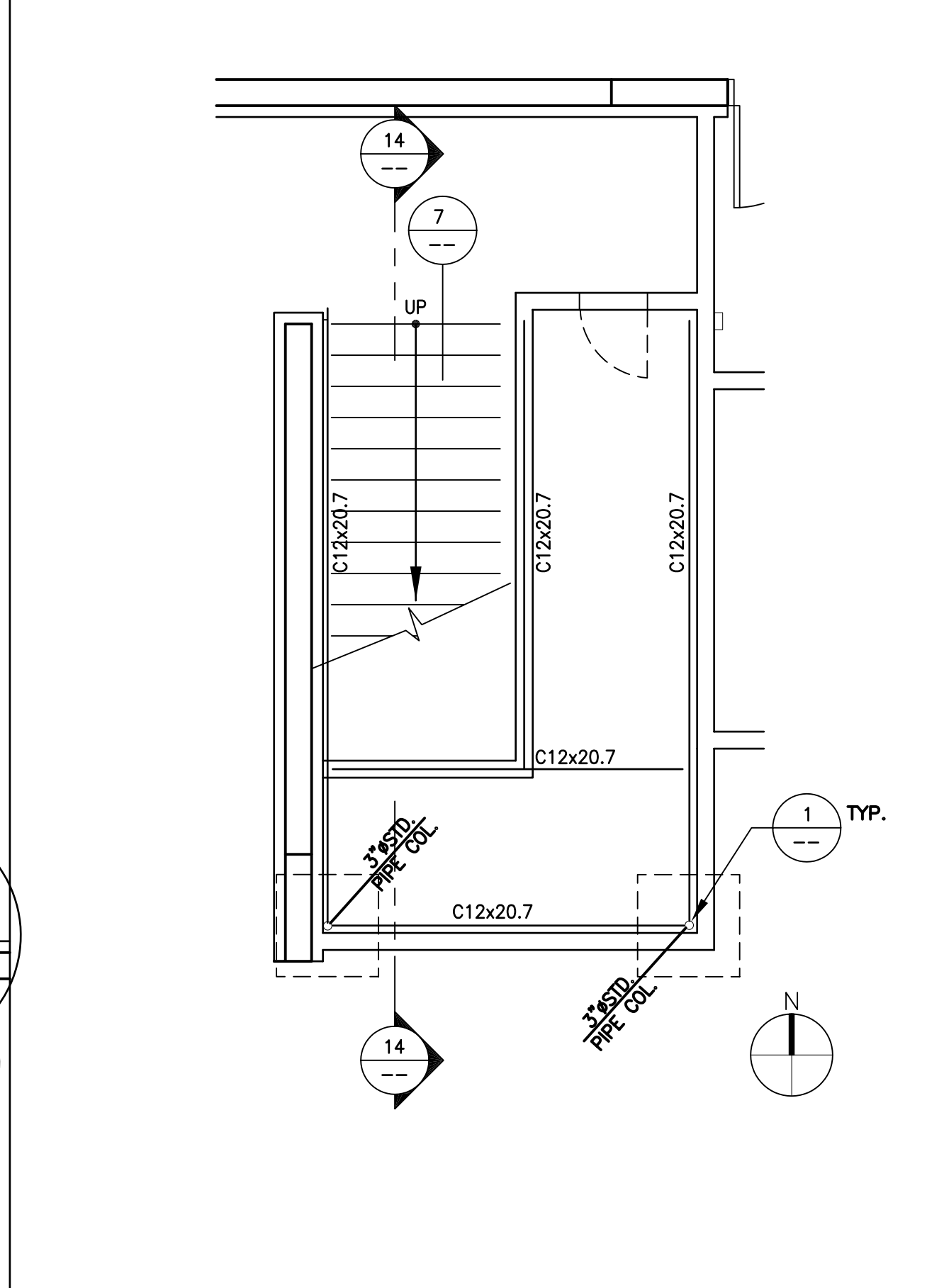
6 STAIR • 2ND FLOOR, GOING UP



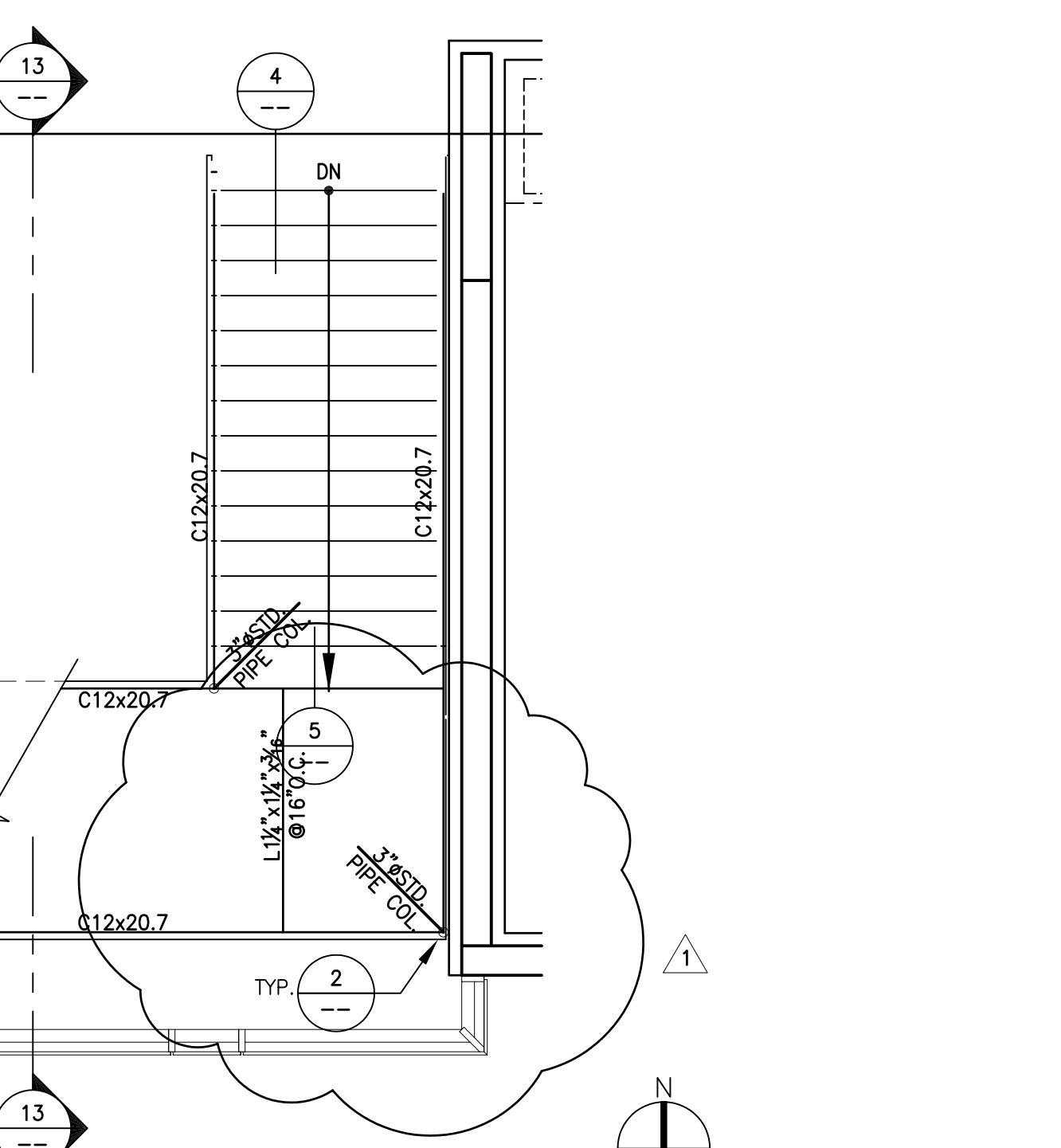
7 STAIR • CONC. FLOOR SLAB



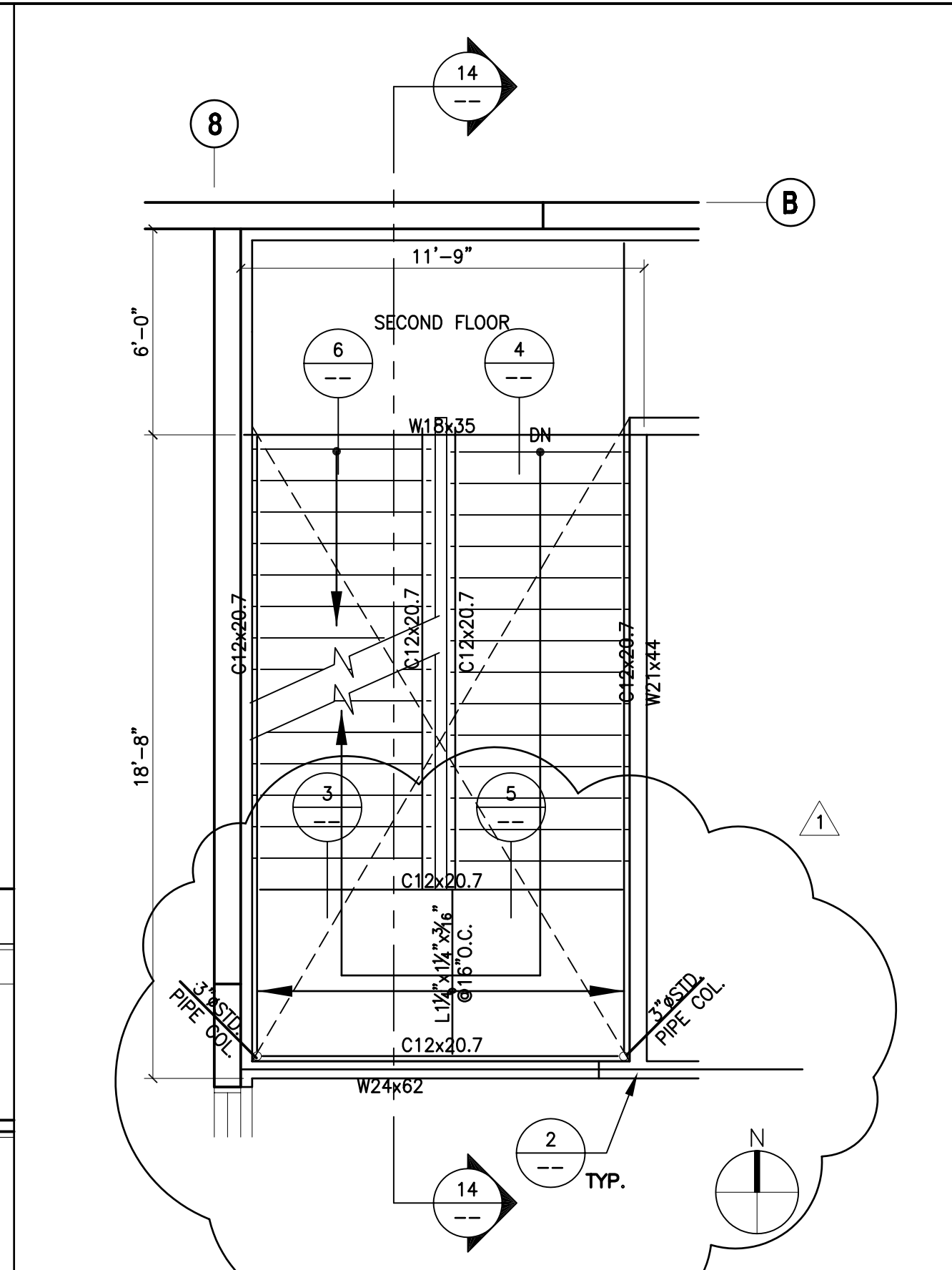
8 ENLARGED PLAN, HIGH ROOF ACCESS STAIR #2
SCALE: 1/4"=1'-0"



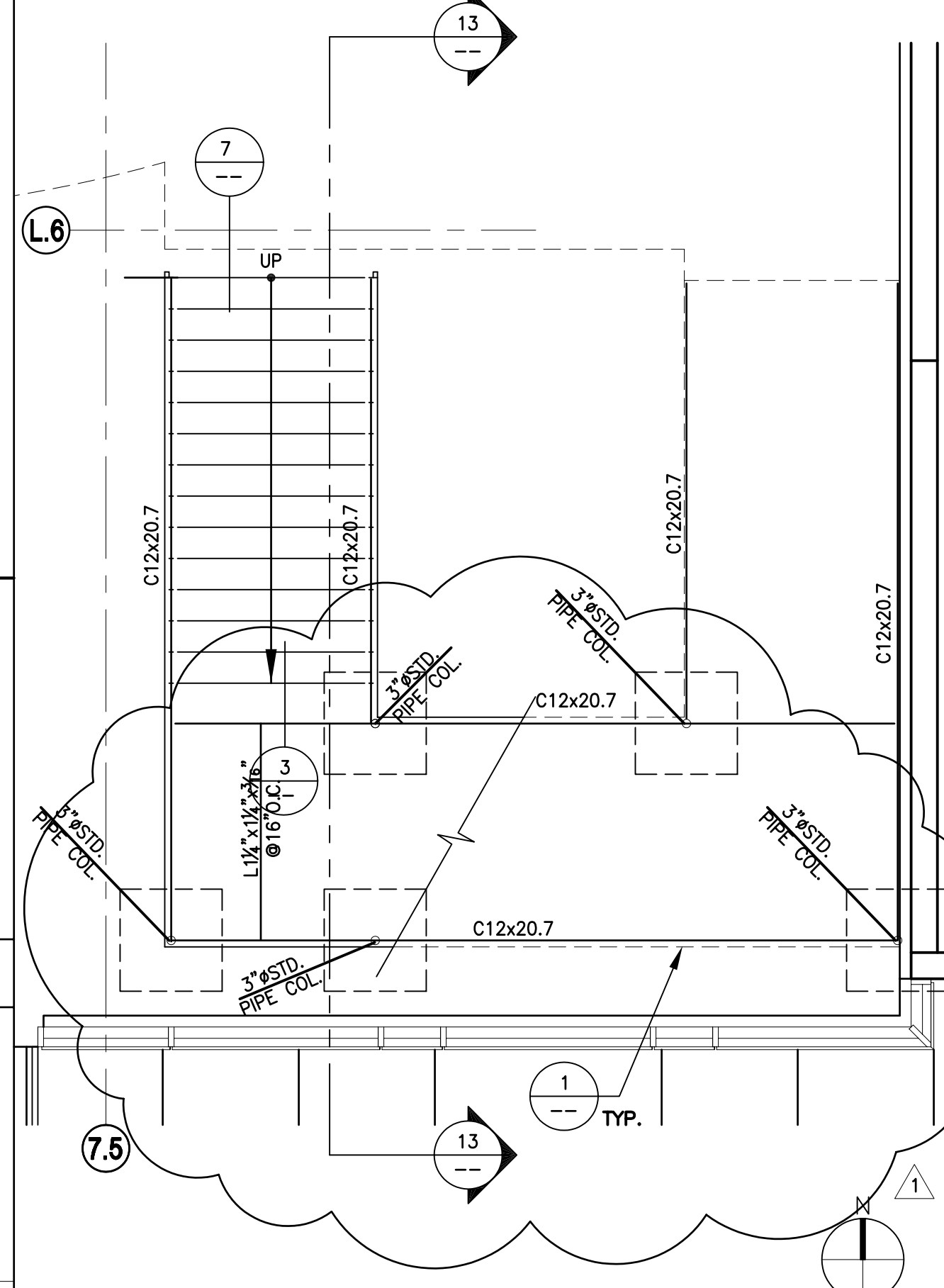
9 ENLARGED PLAN , STAIR #2, FIRST FLOOR
SCALE: 1/4"=1'-0"



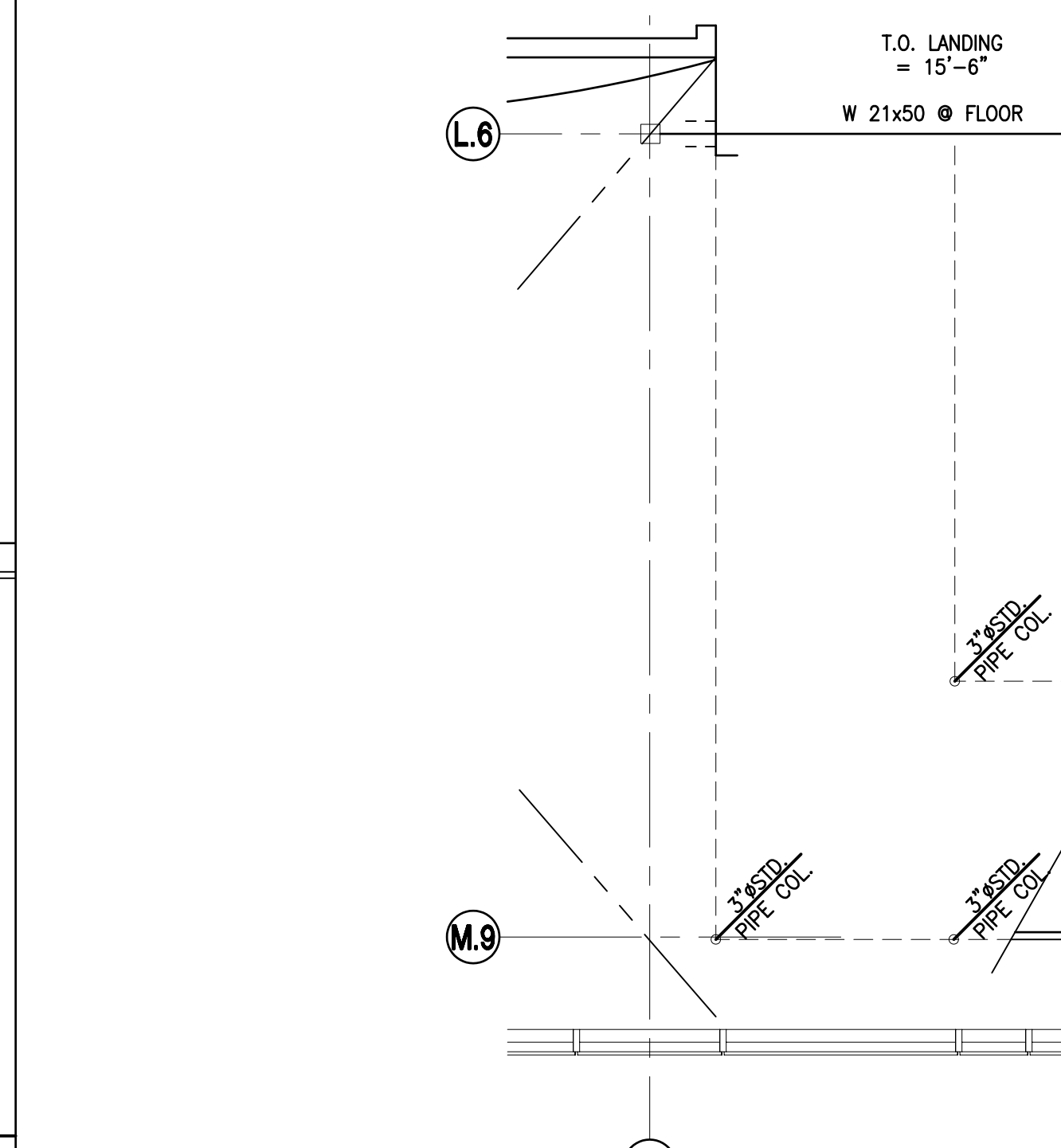
12 ENLARGED PLAN , STAIR #1, SECOND FLOOR
SCALE: 1/4"=1'-0"



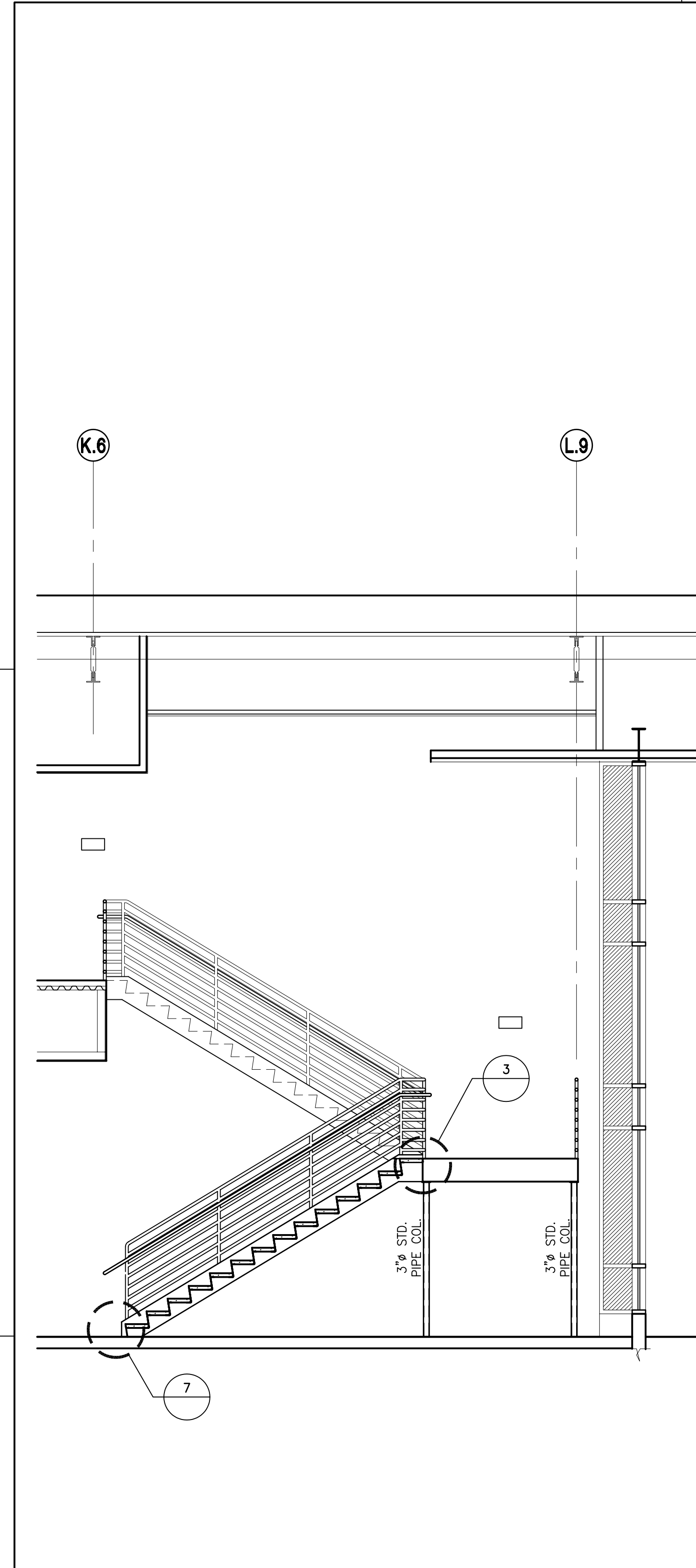
10 ENLARGED PLAN, STAIR #2, SECOND FLOOR
SCALE: 1/4"=1'-0"



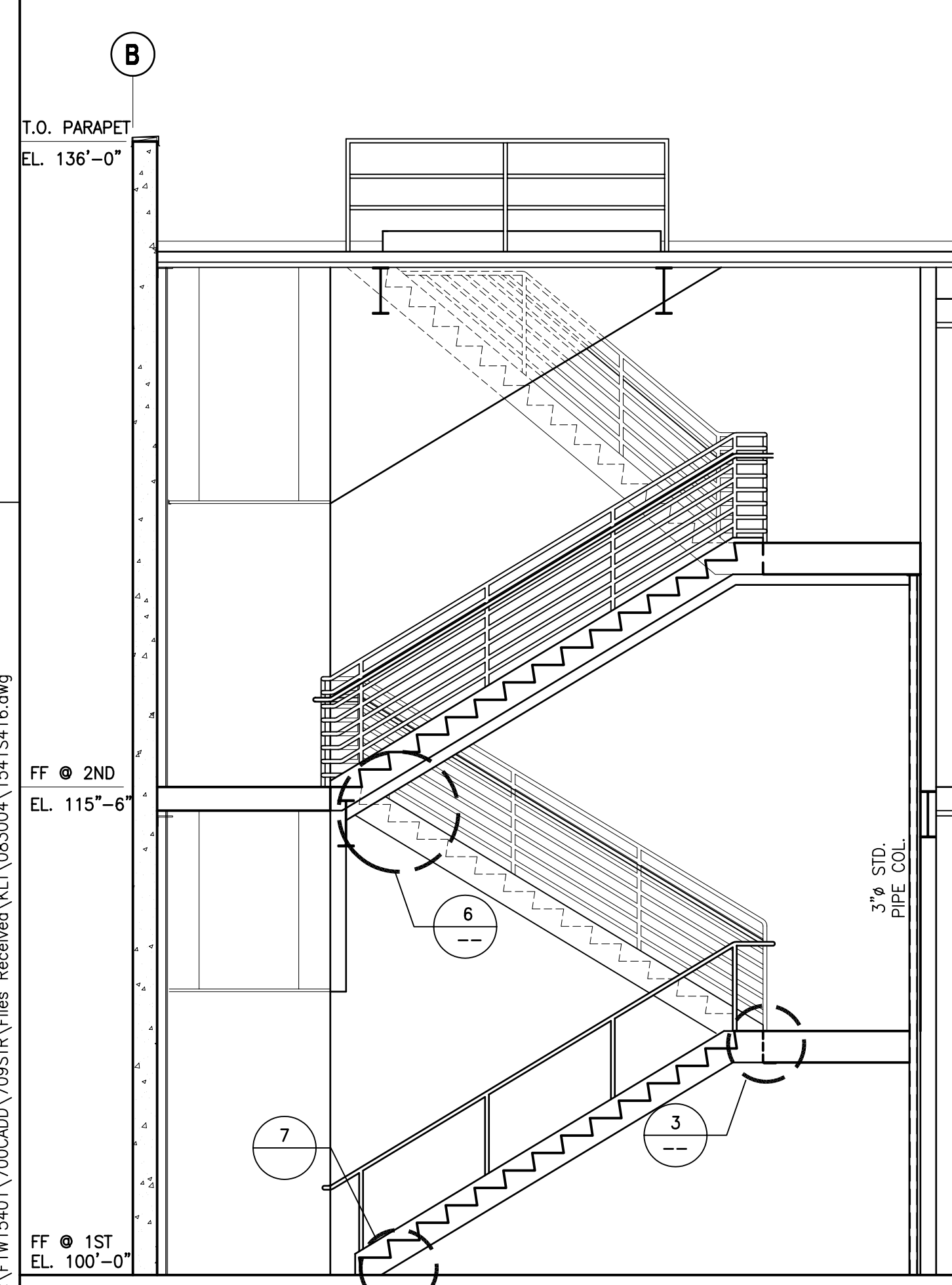
11 ENLARGED PLAN , STAIR #1, FIRST FLOOR
SCALE: 1/4"=1'-0"



12 ENLARGED PLAN , STAIR #1, SECOND FLOOR
SCALE: 1/4"=1'-0"



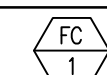

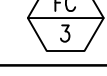
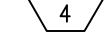
13 ENLARGED SECTION, STAIR #1
SCALE: 1/4"=1'-0"



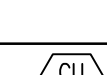
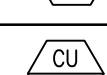
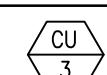

14 ENLARGED SECTION, STAIR #2
SCALE: 1/4"=1'-0"

USER NAME: cdburn
PLOT DATE: 08/30/2004 - 4:22PM
FILENAME: F:\F1W15401\7060200\7060200.dwg

VAV TERMINAL BOX SCHEDULE																
SYMBOL	BASIS OF DESIGN OR EQUAL	AREA SERVED	CFM		MIN S.P. AT INLET	INLET SIZE DIA IN	MBH	HEATING COIL DATA						PIPE CONN. SIZE	OPER. WT. (LBS.)	REMARKS
			MAX	MIN				AIR			WATER					
								ENT. (°F)	LVG. (°F)	MIN. GPM	ENT. (°F)	LVG. (°F)	MAX. ΔP (FT)			
VAV-1	TITUS DESV	ROOM 1206	1,100	330	1.0	10e"	13.2	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-2	TITUS DESV	ROOM 1207	1,950	585	1.0	12e"	23.4	55	95	2	180	150	5	3/4"	55	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-3	TITUS DESV	ROOM 1207	1,950	585	1.0	12e"	23.4	55	95	2	180	150	5	3/4"	55	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-4	TITUS DESV	ROOM 1208	300	90	1.0	6e"	3.6	55	95	.3	180	150	5	3/4"	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-5	TITUS DESV	ROOMS 1209, 1210 & 1211	750	225	1.0	8e"	9.0	55	95	1	180	150	5	3/4"	35	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-6	TITUS DESV	ROOM 1216	1,200	360	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-7	TITUS DESV	ROOM 1217	1,200	360	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-8	TITUS DESV	ROOM 1218	1,200	360	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-9	TITUS DESV	ROOM 1219	1,200	480	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-10	TITUS DESV	ROOM 1220	300	90	1.0	6e"	3.6	55	95	.3	180	150	5	3/4"	30	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-11	TITUS DESV	ROOM 1227, 1228 & 1229	750	225	1.0	8e"	9.0	55	95	1	180	150	5	3/4"	35	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-12	TITUS DESV	ROOM 1223	300	120	1.0	6e"	—	—	—	—	—	—	—	—	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-13	TITUS DESV	TOILETS 1213 & 1215	800	240	1.0	8e"	9.6	55	95	1	180	150	5	3/4"	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-14	TITUS DESV	LOBBY 1201	850	255	1.0	10e"	10.2	55	95	1	180	150	5	3/4"	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-15	TITUS DESV	ROOM 1212	900	270	1.0	10e"	10.8	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-16	TITUS DESV	ROOM 1224	900	270	1.0	10e"	10.8	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-17	TITUS DESV	ROOM 1225	900	270	1.0	10e"	10.8	55	95	1	180	150	5	3/4"	35	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-18	TITUS DESV	ROOM 1226	1,200	360	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-19	TITUS DESV	ROOM 1226	1,200	360	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-20	TITUS DESV	CORRIDOR 1205	1,400	420	1.0	10e"	16.8	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-21	TITUS DESV	LOBBY 1101	1,000	300	1.0	10e"	12.0	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-22	TITUS DESV	ROOM 1144	500	150	1.0	8e"	6.0	55	95	.5	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-23	TITUS DESV	ROOM 1142	1,900	570	1.0	12e"	22.78	55	95	1.5	180	150	5	3/4"	—	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-24	TITUS DESV	ROOM 1143	500	150	1.0	8e"	6.0	55	95	.5	180	150	5	3/4"	—	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-25	TITUS DESV	LOBBY 1101, 1102	760	220	1.0	8e"	9.0	55	95	1	180	150	5	3/4"	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-26	TITUS DESV	LIBRARY 1145	900	270	1.0	10e"	10.8	55	95	1	180	150	5	3/4"	35	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-27	TITUS DESV	ROOM 1128	400	120	1.0	6e"	4.8	55	95	.5	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-28	TITUS DESV	ROOMS 1137, 1160	1,000	300	1.0	10e"	12	55	95	1	180	150	5	3/4"	35	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-29	TITUS DESV	ROOM 1112	400	120	1.0	6e"	4.8	55	95	.5	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-30	TITUS DESV	ROOM 1108	400	120	1.0	6e"	4.8	55	95	.5	180	150	5	3/4"	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-31	TITUS DESV	ROOMS 1131, 1134	500	150	1.0	8e"	6.0	55	95	.5	180	150	5	3/4"	35	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-32	TITUS DESV	ROOM 1114	300	80	1.0	6e"	—	—	—	—	—	—	—	—	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-33	TITUS DESV	ROOM 1118	1,200	360	1.0	10e"	14.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-34	TITUS DESV	ROOM 1121	300	90	1.0	6e"	3.6	55	95	.3	180	150	5	3/4"	32	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-35	TITUS DESV	CORRIDOR 1141	950	285	1.0	10e"	11.4	55	95	1	180	150	5	3/4"	45	ODC CONTROLLED PRESSURE INDEPENDENT
VAV-36	TITUS DESV	1011, 1103, 11203, 11204	600	0	1.0	8e"	—	—	—	—	—	—	—	—	35	ODC CONTROLLED PRESSURE INDEPENDENT

SPLIT SYSTEM FAN COIL UNIT (INDOOR) SCHEDULE												
SYMBOL	BASIS OF DESIGN OR EQUAL	AREA SERVED	CFM	ELECTRICAL DATA				FILTERS (CLEANABLE) NO. OF & SIZE	OPER. WT. (LBS.)	REMARKS		
				VOLTS	PHASE	HZ	FAN FLA					
	CARRIER 40QNB012 (1TON)	IDF ROOM 1104	260	120	1	60	0.23	SUPPLIED W/UNIT	25	① ② ③		
	CARRIER 40QNB012 (1TON)	IT ROOM 1203	260	120	1	60	0.23	SUPPLIED W/UNIT	25	① ② ③		
	CARRIER 40QNB012 (1TON)	IT ROOM 1204	260	120	1	60	0.23	SUPPLIED W/UNIT	25	① ② ③		
	CARRIER 40QNB012 (1TON)	IT ROOM 1223	260	120	1	60	0.23	SUPPLIED W/UNIT	25	① ② ③		

① SYSTEM MODEL No. 53QNB012 ② INDOOR FAN COIL MUST BE CONNECTED TO OUTDOOR UNIT. ③ WALL MOUNTING BRACKET AND WIRELESS CONTROLLER BY UNIT MANUFACTURER.

SPLIT SYSTEM CONDENSING UNIT (OUTDOOR) SCHEDULE																
SYMBOL	BASIS OF DESIGN OR EQUAL	UNIT SERVED	COOLING CAPACITY (BTUH)		SEER	ELECTRICAL DATA			COMPRESSOR		FAN MOTOR F.L.A.	② MCA	② MOCOP	② FLA	OPER. WT. (LBS.)	REMARKS
			TOTAL	SENSIBLE		VOLTS	PHASE	HZ	R.L.A.	L.R.A.						
	CARRIER 53QNB012 (1TON)	FC-1	12,000	11,600	11.0	120	1	60	5.5	30	3	8.5	15	8.85	155	① ② ③
	CARRIER 53QNB012 (1TON)	FC-2	12,000	11,600	11.0	120	1	60	5.5	30	3	8.5	15	8.85	155	① ② ③
	CARRIER 53QNB012 (1TON)	FC-3	12,000	11,600	11.0	120	1	60	5.5	30	3	8.5	15	8.85	155	① ② ③
	CARRIER 53QNB012 (1TON)	FC-4	12,000	11,600	11.0	120	1	60	5.5	30	3	8.5	15	8.85	155	① ② ③

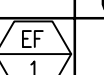



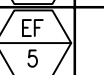
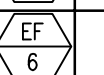



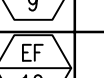



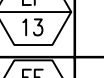

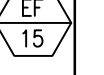
① SYSTEM MODEL No. 53QNB012 ② MCA AND MOCOP ARE FOR BOTH INDOOR AND OUTDOOR UNITS ③ SYSTEM No. 53QNB012-3 PROVIDE W/ ACCESSORY CRANKCASE HEATER.

SPLIT SYSTEM A/C UNIT MOUNTING NOTE:

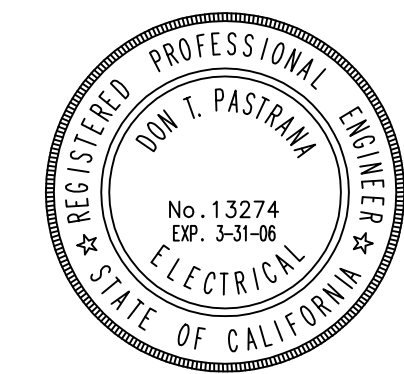
INDOOR UNIT:
MOUNT HIGH ON WALL AS SHOWN ON PLANS, SECURE TO STRUCTURE USING FACTORY MOUNTING BRACKETS AND TEMPLATE WITH 1/2"x2-1/2" ANCHOR BOLTS PER MANUFACTURER'S INSTRUCTIONS. REFER TO MOUNTING DETAIL

FAN COIL UNIT SCHEDULE																								
EQUIPMENT NUMBER	BASIS OF DESIGN	SERVICE	FAN DATA		ELECTRICAL DATA		COOLING COIL										FILTER	FAN MOTOR			REMARKS			
			OSA CFM	CFM	ESP IN W.G.	MOTOR HP	FLA WATTS	EAT DB	F WB	LAT F DB	F WB	SENSIBLE CAPACITY MBH	TOTAL CAPACITY MBH	WATER °F		GPM	MAX FT H ₂ O	MIN. ROWS	EFF%	VOLTAGE		PHASES	FREQ. (HERTZ)	WEIGHT LBS
														IN	OUT									
<div>FC</div> <div>5</div>	CARRIER 42CKABALCYBAYYY	ELECTRICAL ROOM 1117	0	570	.25	1/6	Z.1 235	80	67	59.2	57	12.9	18	42	54	3	4.2	3	30%	110	1	60	200	①

① PROVIDE SECONDARY DRAIN PAN.

EXHAUST FAN SCHEDULE															
SYMBOL	BASIS OF DESIGN OR EQUAL	MODEL	DRIVE TYPE	AREA SERVED	CFM	TOTAL SP IN W.G.	FAN RPM	MOTOR RPM	MOTOR DATA				WEIGHT LBS.	REMARKS	
									WATTS/BHP	VOLT	PH	HZ			
 1	COOK	ACE-100B	BELT	MEN'S TOILET-1213	600	.75"	-	-	1/3	120	1	60	100	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 2	COOK	ACE-100B	BELT	WOMEN'S TOILET-1215	700	.75"	-	-	1/3	120	1	60	100	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 3	COOK	GC-620	DIRECT	ELECTRICAL ROOM 1231	400	.25"	960	-	233 WATTS	120	1	60	40	PROVIDE BACKDRAFT DAMPER AND EXHAUST ROOF VENT CAP	
 4	COOK	GC-720	DIRECT	ELECTRICAL ROOM 1117	830	.375	1375	-	293 WATTS	120	1	60	40	PROVIDE BACKDRAFT DAMPER	
 5	COOK	ACE-180B	BELT	WOMEN'S TOILET/ SHOWERS	3,000	1.00"	1137	-	1	460	3	60	200	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 6	COOK	ACE-150	BELT	KITCHEN	2,010	0.75"	1193	-	3/4	460	3	60	100	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 7	COOK	GC-160	DIRECT	TOILET-1122	166	.375	-	-	113 WATTS	120	1	60	15	PROVIDE BACKDRAFT DAMPER AND EXHAUST ROOF VENT CAP	
 8	COOK	AWD-16	DIRECT	BATTERY ROOM-1119	660	.25"	1140	-	-	120	1	60	82	PROVIDE BACKDRAFT DAMPER , STAINLESS STEEL WIRE GUARD AND EXTERNAL SHUTTER. NON-EXPLOSION PROOF SPARK RESISTANT	
 9	COOK	245-VCR-XP	BELT	KITCHEN RANGE HOOD EXHAUSTER TYPE 1	3,000	1.50"	-	-	3	460	3	60	400	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 10	COOK	195-VCR-XP	BELT	KITCHEN RANGE HOOD EXHAUSTER TYPE 2	2,250	1.00"	-	-	1.5	460	3	60	200	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 11	COOK	ACE-180B	BELT	UNIT MAINTENANCE WORKBAY-1123	2,500	1.00"	-	-	1	460	3	60	150	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	
 12	COOK	AWD-16	DIRECT	BOILER ROOM-1116	995	.250	-	-	1/6	120	1	60	82	PROVIDE BACKDRAFT DAMPER & STAINLESS STEEL WIRE GUARD	
 13	COOK	GC-160	DIRECT	TOILET-1127	170	.375	1500	-	1/3	120	1	60	15	PROVIDE BACKDRAFT DAMPER AND EXHAUST ROOF VENT CAP	
 14	COOK	ACE-100B	BELT	ELEVATOR MACHINE ROOM 1103	600	.50	1437	1750	1/4	120	3	60	100	PROVIDE BACKDRAFT DAMPER AND EXHAUST ROOF VENT CAP	
 15	AMMERMAN	BIB-135	BELT	UNIT MAINTENANCE 1123 VEHICLE EXHAUST	3,067	4.5	2,001	3,500	3	460	3	60	300	1 1/2" BROSSCREEN, GRAVITY DAMPER, EPOXY PAINT IN AIR STREAM, PLATE SUPPORT, TETIC MOTOR & SWITCH & WITH TWO 6" x 35 FT LENGTH HOSE REEL AT 695 DEGREES F	
 16	COOK	150-VCR-HP	BELT	EXHAUST HOOD	675	1.5	-	1750	1/2	120	1	60	100	PROVIDE BACKDRAFT DAMPER AND PREFABRICATED ROOF CURB	

Seal:



Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

**ELECTRICAL
OVERALL
SINGLE LINE DIAGRAM**

Designed By: UL
Drawn By: JTR
Checked By: AH

Drawn By: JTR
Checked By: AH

AM-02

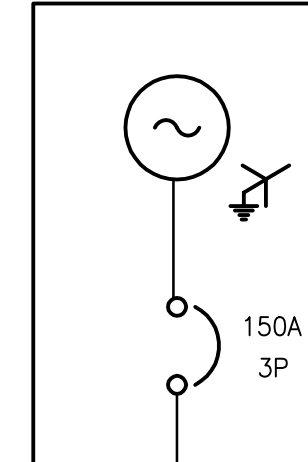
KEY NOTES

- SERVICE TRANSFORMER WILL BE PROVIDED AND INSTALLED BY SOUTHERN CALIFORNIA EDISON (SCE).
- METER, CT'S AND PT'S WILL BE PROVIDED BY SCE. CABINET WILL BE PROVIDED BY CONTRACTOR.
- TRANSFORMER PAD AND METERING CABINET SHALL BE PER SCE STANDARD.
- THE POINT OF CONTACT FOR UTILITY SERVICE IS AS LISTED BELOW:

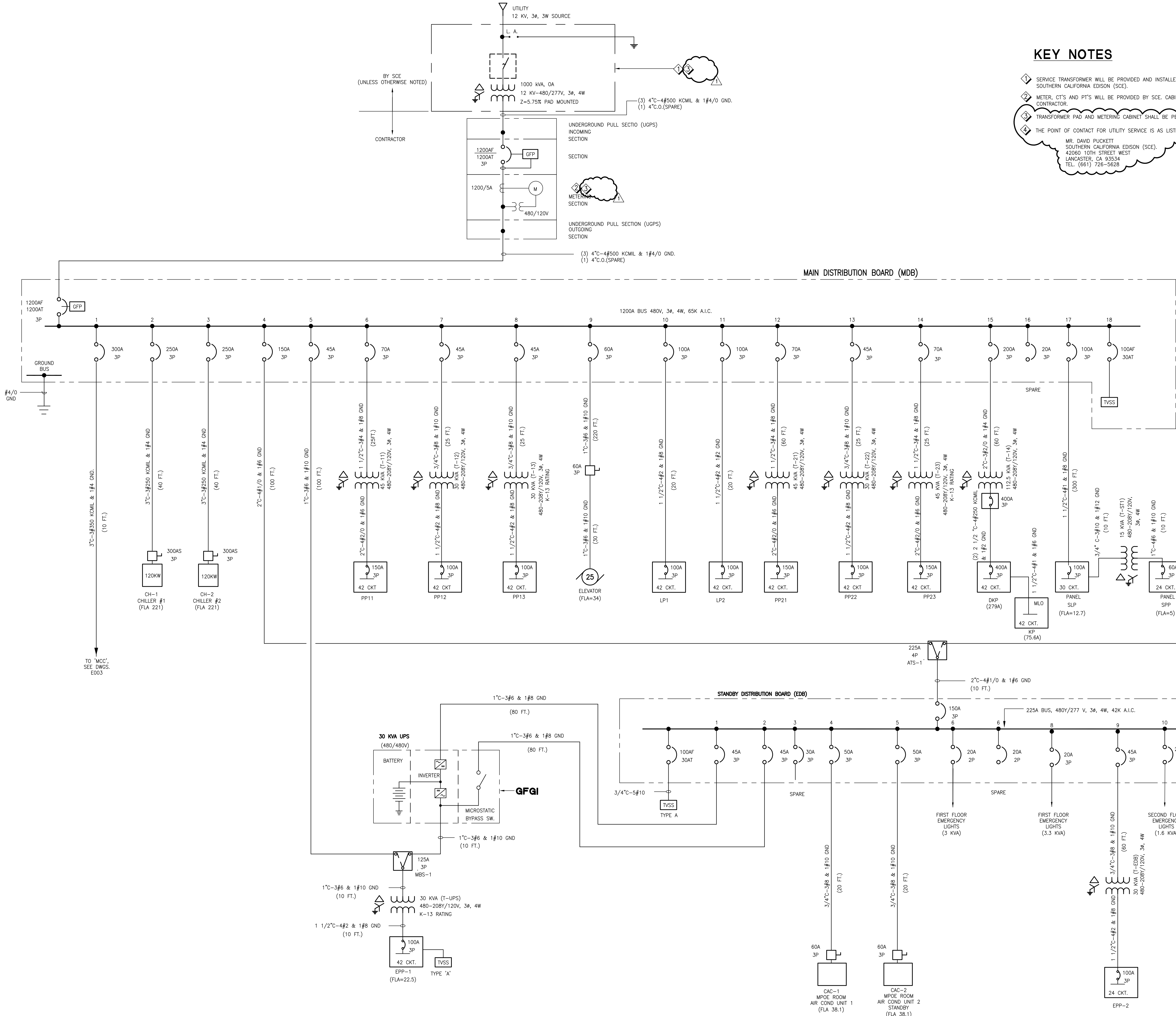
MR. DAVID PUCKETT
SOUTHERN CALIFORNIA EDISON (SCE)
42060 10TH STREET WEST
LANCASTER, CA 93534
TEL. (661) 726-5628

**BID OPTIONAL
ITEM #11**

80 KW
480Y/277V, 3ø, 4W
0.8 PF, 60 HZ
ENGINE
GENERATOR



2" C-4#1/0 & 1#6 GND
(100 FT.)



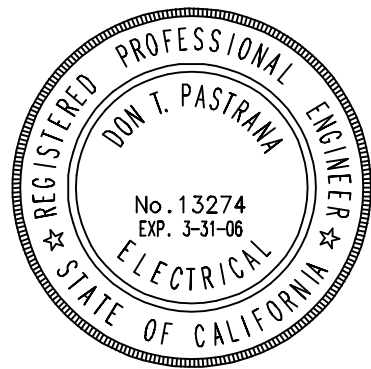
1 OVERALL SINGLE LINE DIAGRAM

SCALE: NONE

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

Seal:



Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



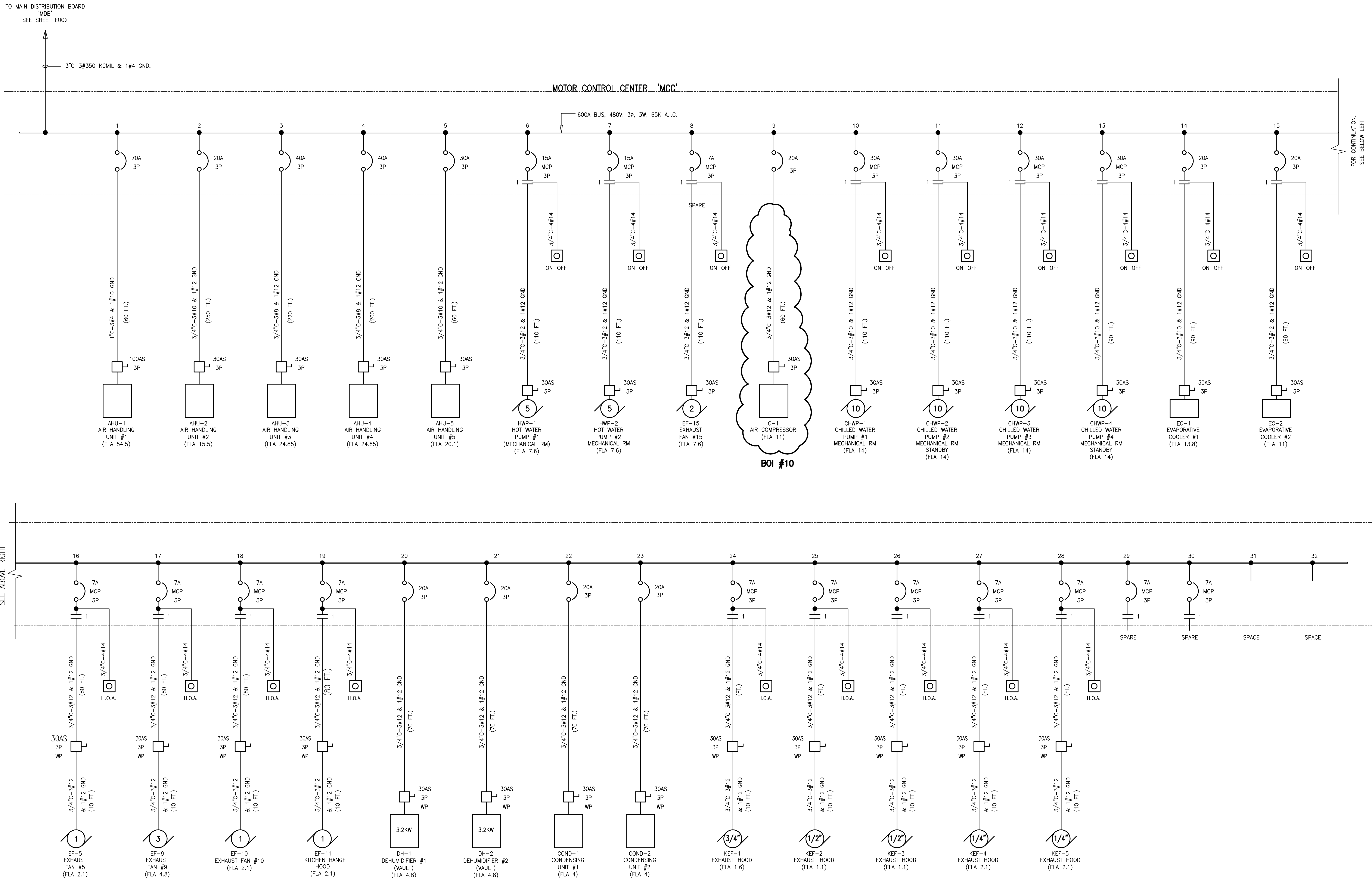
Keyplan:

Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

ELECTRICAL
480 V MCC
SINGLE LINE DIAGRAM

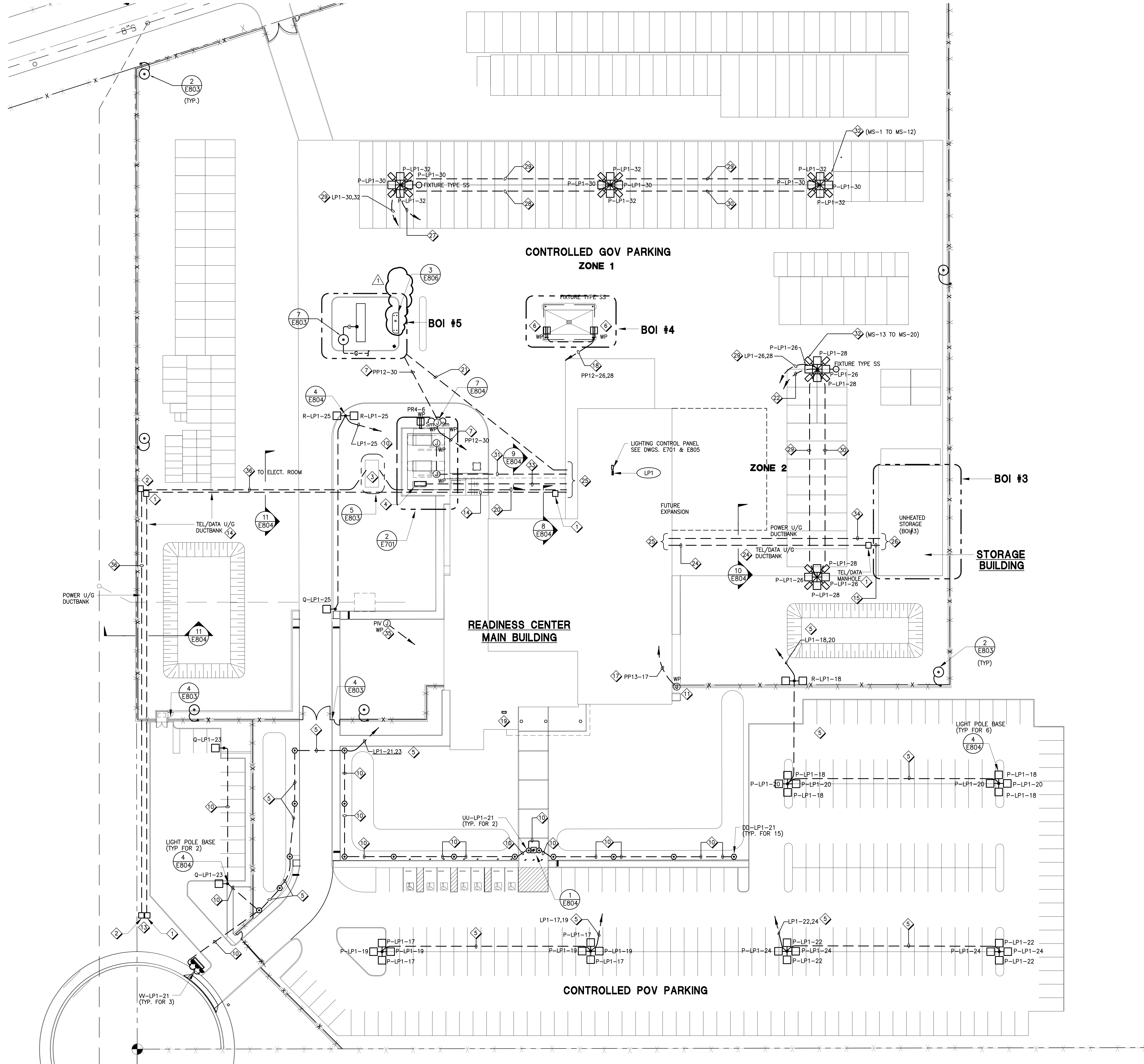
Designed By: UL
Drawn By: JTR
Checked By: AH
Drawing No.: **E003**



USER NAME: cdburn
PLOT DATE: 08/31/2004 - 9:51AM
FILENAME: F:\F1W15401\7000CAD\700ELECT\1541E100.dwg

1 ELECTRICAL SITE PLAN

SCALE: 1"=30'-0"



KEY NOTES

- 1 PROVIDE 3'-0" X 5'-0" X 3'-0" DEEP MANHOLE, JENSEN #K5106-FM78-14 OR APPROVED EQUAL.
- 2 PROVIDE NEW POWER MANHOLE 4'-0" X 6'-6" X 5'-6" DEEP, JENSEN #K466-DW66-11A OR APPROVED EQUAL.
- 3 1000 KVA, 12.47 KV-480/277V, 3 PH., 4W PAD-MOUNTED TRANSFORMER PROVIDED AND INSTALLED BY SCE.
- 4 80KW, 480/277V, 3 PH., 4W STANDBY GENERATOR.(BOI #11)
- 5 1"C-3#8 & 1#10 GND
- 6 VERIFY EXACT RECEPTACLE LOCATION PRIOR TO ROUGH-IN.
- 7 1"C-3#10, 1#10 GND.
- 8 NOT USED.
- 9 3/4"C-2#12 & 1#12 GND
- 10 1"C-2#8 & 1#10 GND
- 11 PROVIDE SURFACE MOUNTED WEATHERPROOF JUNCTION BOX AND CONNECTION TO IRRIGATION CONTROLLER. FIELD VERIFY EXACT LOCATION.
- 12 PROVIDE WEATHERPROOF JUNCTION BOX AND CONNECTION TO FIRE ALARM PANEL.
- 13 COORDINATE WITH CITY CIVIL DRAWINGS FOR MANHOLE LOCATIONS TO INTERCEPT UTILITY LINES.
- 14 (2)4"C.O. AND (2) 4"C.O. SPARE, PVC SCHEDULE 40.
- 15 (1)4"C WITH (1)50 PAIR FILLED CORE OUTSIDE PLANT CABLE, AND (1)50/125 MICRON 6-STRAND OPTICAL FIBER CABLE. (1)4"C.O. CAPPED AS "SPARE".
- 16 3/4"C-2#10 & 1#10 GND
- 17 3/4"C-2#12 & 1#12 GND
- 18 3/4"C-3#12 & 1#12 GND
- 19 FIRE ALARM CONTROL PANEL "FACP". FOR EXACT LOCATION, SEE SHEET E511.
- 20 (3) 4"C-4#500KCMIL, 1#4/0 KCMIL GND. (1) 4"C.O. SPARE.
- 21 PROVIDE 2" C.O., INSTALL 30" TO 36" BELOW GRADE.
- 22 1 1/4"C-3#14 (FOR MOTION SENSOR, STROBE LIGHT, (4) SPARES).
- 23 INDICATES COVERAGE FOR ONE MOTION SENSOR.
- 24 (1)4"C WITH (1)50 PAIR FILLED CORE OUTSIDE PLANT CABLE AND (1)50/125 MICRON 6-STRAND OPTICAL FIBER CABLE. (1)4"C.O. SPARE, FROM MPOE ROOM TO IT ROOM IN UNHEATED STORAGE BLDG. CABLES ARE B.O.I.
- 25 FOR CONTINUATION, SEE SHEET E700 AND E701.
- 26 FOR CONTINUATION, SEE SHEET E700 AND E702.
- 27 1 1/2"C-5#14(FOR MOTION SENSOR, STROBE LIGHT, (4) SPARES).
- 28 1 1/4"C-3#14(FOR MOTION SENSOR, (4) SPARES).
- 29 1"C-3#8, 1#10 GND
- 30 1"C-2#14(FOR MOTION SENSOR, (4) SPARES).
- 31 1"C.O. FOR MECHANICAL CONTROL TO MAIN D.D.C. CONTROL PANEL IN ROOM 1118.
- 32 PROVIDE POLE MOUNTED MOTION SENSOR, PROTECH MODEL NO. SDI-77XL2., OR APPROVED EQUAL.
- 33 2"C-4#1/0 & 1#6 GND
- 34 1 1/2"C-4#1 & 1#8 GND
- 35 PROVIDE WEATHER PROOF JUNCTION BOX AND CONNECTION TO PIV. PROVIDE 3/4"C WITH REQUIRED CONDUCTORS BACK TO FIRE ALARM PANEL.
- 36 (1) 4"C.O. PVC SCHEDULE 40.

GENERAL NOTES

1. SEE DWG. E001 FOR SYMBOLS AND ABBREVIATIONS.
2. SEE DWGS E002 & E003 FOR SINGLE LINE DIAGRAMS.
3. SEE DWG. E801 FOR LIGHTING FIXTURE SCHEDULE.
4. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND WORK/MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASED OF CONCRETE ENCASED OF CONDUIT (IF REQUIRED), XFMR PAD, BARRIER'S, POLE RISERS, TRENCHING/BACKFILL AND UTILITY COMPANY FEES AS REQUESTED BY UTILITY COMPANY AND INCLUDE ALL REQUIREMENTS IN BID AND SCOPE OF WORK.
5. ALL POWER, TELECOMMUNICATION LIGHTING AND OTHER UNDERGROUND DUCTBANK OR CONDUIT AT PARALLEL RUN AND AT CROSSINGS SHALL MAINTAIN 12" SEPARATION OR CLEARANCE BELOW.

5757 Plaza Drive, Suite 100, Cypress CA. 90630
(714) 503-3400 FAX (714) 503-3999

Seal:



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CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:
0 30' 60' 90'
SCALE: 1"=30'

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

ELECTRICAL SITE PLAN

Designed By: UL
Drawn By: JTR
Checked By: AH
Drawing No.: E100

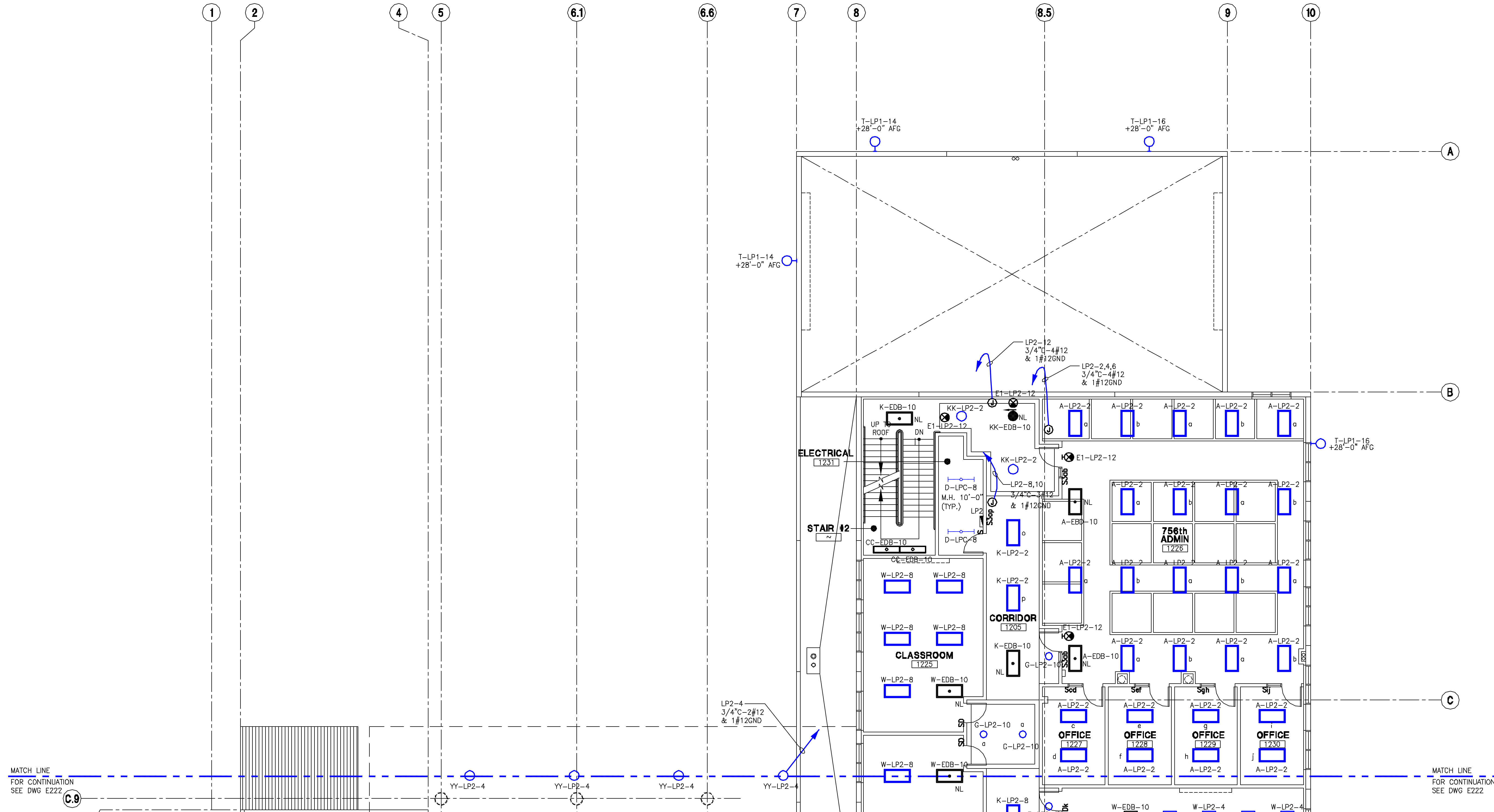
MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

AM-02

USER NAME: Alee
PLOT DATE: 08/31/2004 - 9:07AM
FILENAME: P:\F1W15401\700000\700ELECT\1541E221.dwg

1 SECOND FLOOR AND LOWER ROOF PLAN - SECTOR 2
SCALE: 1/8"=1'-0"

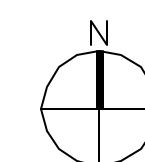


KEY NOTES

1 NOT USED.

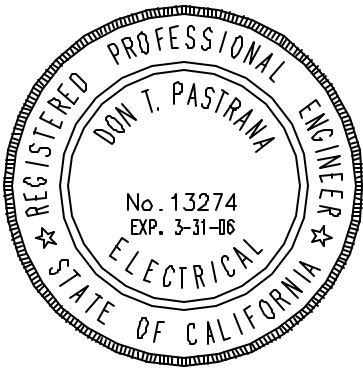
GENERAL NOTES

1. SEE DWG. E001 FOR SYMBOLS AND ABBREVIATIONS.
2. SEE DWG. E801 FOR LIGHTING FIXTURE SCHEDULE.
3. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR ALL EQUIPMENT ON THE CEILING.
4. DRAWINGS INDICATE HOMERUN WIRING AND CONDUIT ONLY. ALL INTERCONNECTION WIRING AND CONDUIT SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED BY DEVICE CIRCUIT NUMBER.



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(714) 503-3400 FAX (714) 503-3999

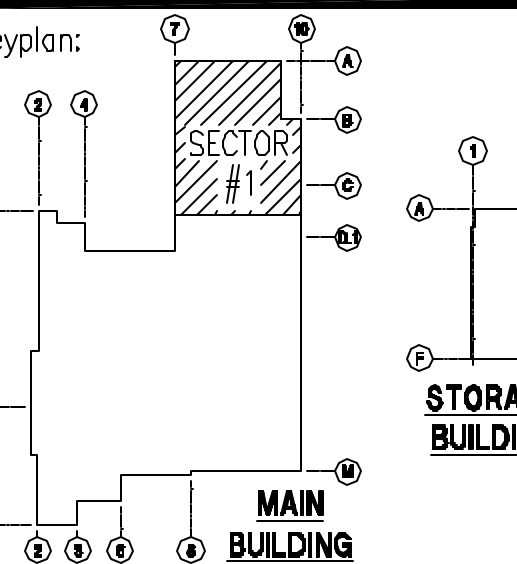
Seal:



Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Scale: 0 8' 16' 24'
SCALE: 1/8"=1'-0"

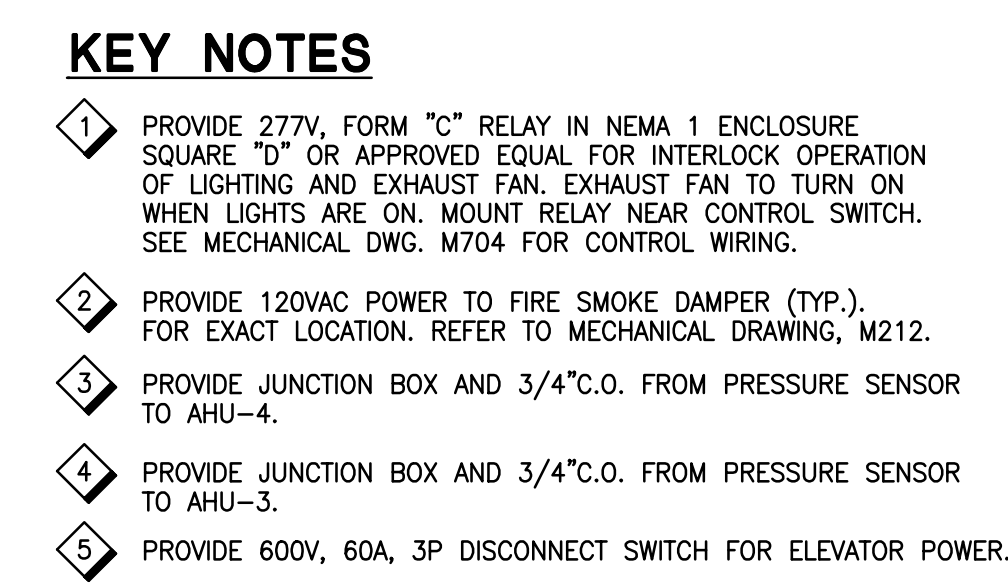
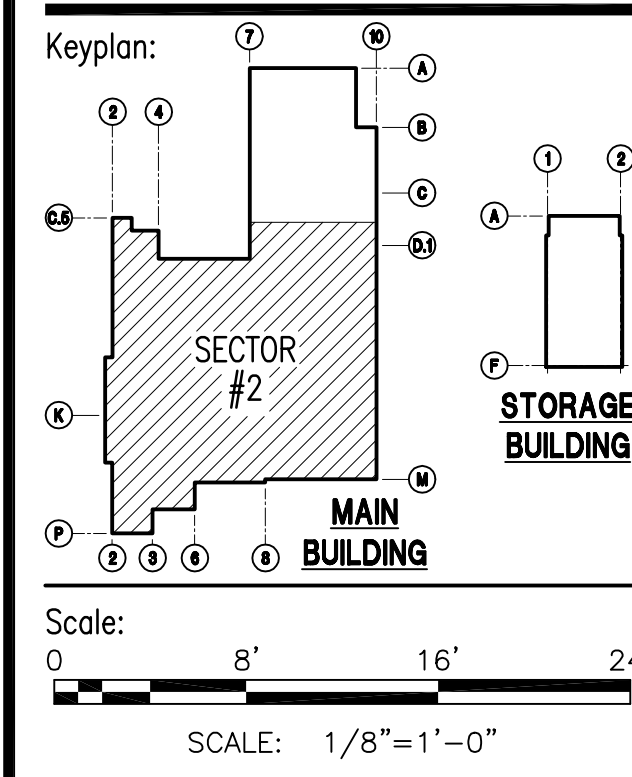
Jacobs Project No.: F1W15401
ARNG Project No.: 060297

ELECTRICAL
SECOND FLOOR PLAN
SECTOR 1
LIGHTING PLAN

Designed By: UL
Drawn By: JTR
Checked By: AH
Drawing No.: E221

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

[illegible]

Jacobs Project No.:	F1W15401
ARNG Project No.:	060297
Drawing Title:	

**ELECTRICAL
FIRST FLOOR
SECTOR 2
POWER PLAN**

Designed By: UL	Drawing No.
Drawn By: JTR	E312
Checked By: AH	

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USER NAME: cdburn
PLOT DATE: 08/31/2004 - 9:12AM
FILENAME: P:\FW15401\700CAD\0703FECT\1541F312.dwg
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1 FIRST FLOOR PLAN - SECTOR 2
SCALE: 1/8"=1'-0"

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

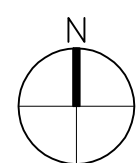
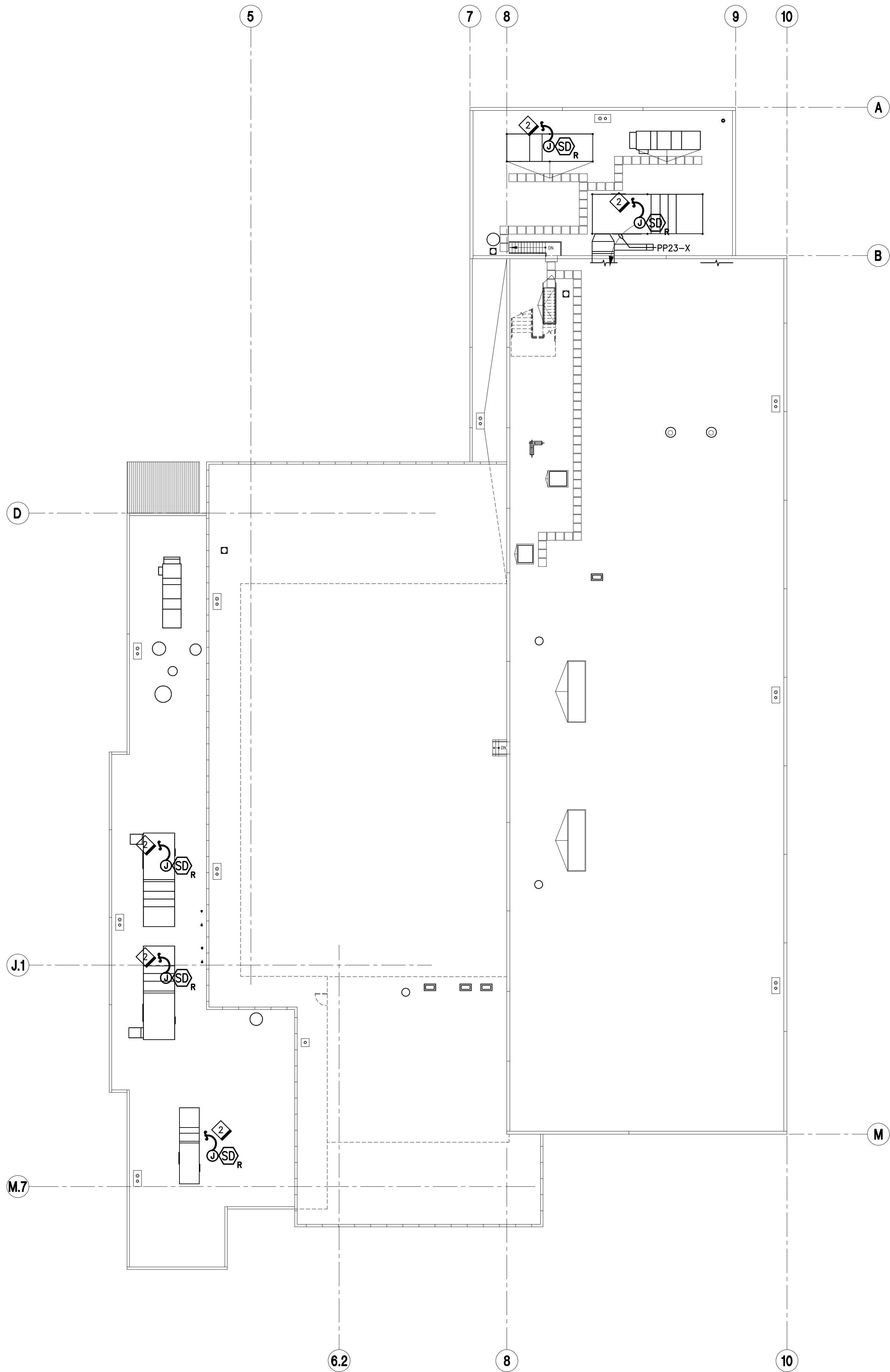
DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

AM-02

Drawing No.
E312

USER NAME: cdburn
PLOT DATE: 08/31/2004 -- 9:13AM
FILENAME: F:\F1W15401\700CAD\703ELECT\1541E530.dwg

1 ROOF FIRE ALARM PLAN
SCALE: 1/16"=1'-0"



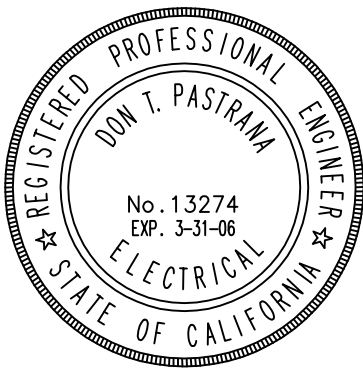
KEY NOTES

- 1 NOT USED.
- 2 CONNECT TO FIRE/SMOKE DAMPER. PROVIDE SMOKE DUCT DETECTOR IMMEDIATELY UPSTREAM OF FIRE SMOKE DAMPER.

GENERAL NOTES

1. SEE DWG. E001 FOR SYMBOLS AND ABBREVIATIONS.
2. SEE DWG. E503 FOR FIRE ALARM RISER DIAGRAM.

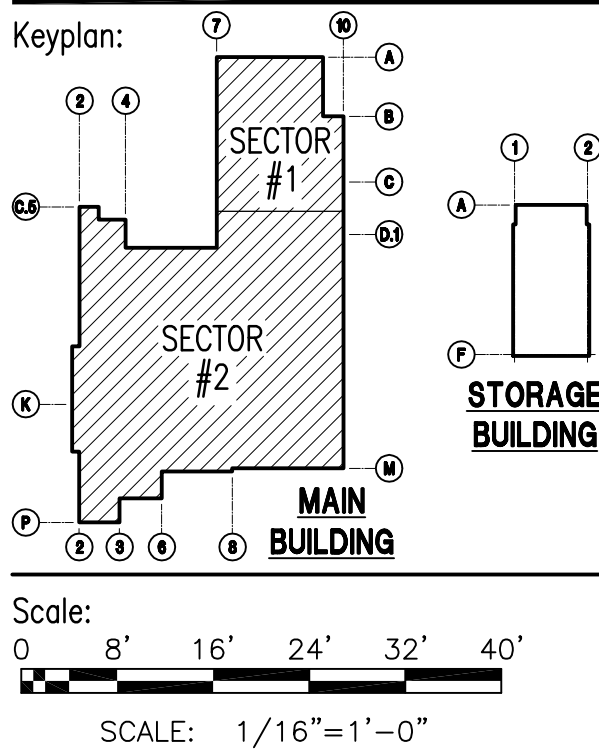
Seal:



Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

ELECTRICAL
ROOF
FIRE ALARM PLAN

Designed By: UL
Drawn By: JTR
Checked By: AH

Drawing No.
E530

AM-02

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

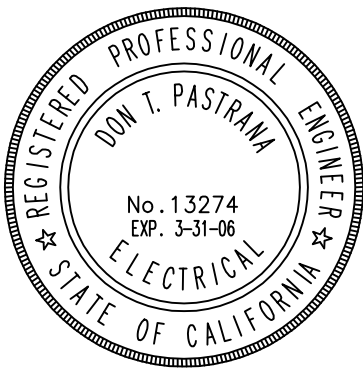
DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

USER NAME: cdburn
PLOT DATE: 08/31/2004 - 9:14AM
FILENAME: P:\F1W15401\700CAD\703ELECT\1541E801.dwg

LIGHTING FIXTURE SCHEDULE											S=SURFACE R=RECESSED C=CHAIN FL=POLE P=PENDANT
TYPE	MANUFACTURER	CATALOG NO.	ALTERNATE MANUFACTURERS	CORP. STANDARD DETAIL No. 40-06-04	FIXTURE DESCRIPTION	LAMPS		VOLT	FIXT. INPUT	MTG	REMARKS
						TYP	DESCRIPTION QTY.				
A	LITHONIA	2PM3N GB3 32 18 LD 277 GEB	COLUMBIA H.E. WILLIAMS	TYPE R	RECESSED 2'x4' 3-LAMP PARABOLIC TROFFER WITH 18 CELL LOUVER IN T-BAR CEILING	FL	F032 18/35K 3	277	90	R	
B	LITHONIA	2PM3N GB2 32 12 LD 277 GEB	COLUMBIA H.E. WILLIAMS	-	RECESSED 2'x4' 2-LAMP PARABOLIC TROFFER WITH 12 CELL LOUVER IN T-BAR CEILING	FL	F032 18/35K 2	277	58	R	
C	LITHONIA	2PM3N GB2 U31 6 LD 277 GEB	COLUMBIA H.E. WILLIAMS	TYPE SF7	RECESSED 2'x2' 2-LAMP PARABOLIC TROFFER WITH 6 CELL LOUVER IN T-BAR CEILING	FL	F032 18/35K 2	277	58	R	
D	LITHONIA	AF10 232 277 GEB	COLUMBIA H.E. WILLIAMS	TYPE A	4' LONG 2-LAMP INDUSTRIAL STRIP FIXTURE WITH SEISMIC RESTRAINT	FL	F032 18/35K 2	277	58	S	
E1	LITHONIA	LESW-1G-277-ELN	SRBT ISOLITE	TYPE XL1	LED WITH NICKEL CADMIUM BATTERY	LED	- - -	-	-	S	WALL MOUNT @ 4'-7"-6"
E2	LITHONIA	LESW-2G-277-ELN	SRBT ISOLITE	TYPE XL1	LED WITH NICKEL CADMIUM BATTERY	LED	- - -	-	-	S	WALL MOUNT @ 4'-7"-6"
F	SPORTLITE	LX8-T42-35K-22LEXCP-22ILLP-277-2SL-3PEN	GUTH RUUD	-	ENERGY EFFICIENT 8-LAMP FLUORESCENT HIGH BAY LIGHT FIXTURE	FL	42W GX24 04 35K 8	277	376	P	WITH 2-LEVEL SWITCHING
G	INTENSE	IFV826-E-27-1100-ICH-188C	LITHONIA COLUMBIA	TYPE RF5	RECESSED 8" FLUORESCENT DOWN LIGHT	FL	26W 35K 1	277	32	R	
H	LITHONIA	SS2-32-277-GEB	COLUMBIA H.E. WILLIAMS	-	FLUORESCENT 4' LONG 2-LAMP STAGGERED STRIP FIXTURE MOUNTED WITHIN COVE	FL	F032 18/35K 2	277	58	S	
J	LITHONIA	2SP8-G332-A12-277-GEB	COLUMBIA H.E. WILLIAMS	TYPE D	RECESSED 2'x4' 3-LAMP LENSED TROFFER WITH PRISMATIC ACRYLIC LENS	FL	F032 18/35K 3	277	90	R	
K	LITHONIA	2SP8-G232-A12-277-GEB	COLUMBIA H.E. WILLIAMS	TYPE C	RECESSED 2'x4' 2-LAMP LENSED TROFFER WITH PRISMATIC ACRYLIC LENS	FL	F032 18/35K 2	277	58	R	
L	LITHONIA	UN323-277-GEB	COLUMBIA H.E. WILLIAMS	TYPE SF10	FLUORESCENT 4' LONG 2-LAMP STRIP FIXTURE	FL	F032 18/35K 2	277	58	S	
M	LITHONIA	DM232-277-GEB	COLUMBIA H.E. WILLIAMS	TYPE RF9	ENCLOSED 4' LONG 2-LAMP FLUORESCENT DAMP LOCATION FIXTURE	FL	F032 18/35K 2	277	58	S	
N	SPORTLITE	LX4-T42-35K 22LEXCP-277-2SL-3PEN	GUTH RUUD	-	ENERGY EFFICIENT 4-LAMP FLOUR. HIGH BAY LIGHT FIXTURE	FL	42W GX24 04 35K 4	277	188	P	WITH 2-LEVEL SWITCHING
P	INVUE	AEM-400-HPS-277-4S-BZ	HOLOPHANE GENERAL ELECTRIC LIGHTING	TYPE EH1	POLE MOUNTED CUTOFF TYPE FIXTURE WITH ALUMINUM HOUSING, BRONZE FINISH AND 30" HIGH SQUARE STRAIGHT ALUMINUM POLE	HPS	400W HPS 4	277	1860	PL	POLE MOUNTED ON CONCRETE PEDESTAL
Q	INVUE	AEM-400-HPS-277-2S-BZ	HOLOPHANE GENERAL ELECTRIC LIGHTING	TYPE EH1	POLE MOUNTED CUTOFF TYPE FIXTURE WITH ALUMINUM HOUSING, BRONZE FINISH AND 30" HIGH SQUARE STRAIGHT ALUMINUM POLE	HPS	400W HPS 1	277	465	PL	POLE MOUNTED ON CONCRETE PEDESTAL
R	INVUE	AEM-400-HPS-277-SL-BZ	HOLOPHANE GENERAL ELECTRIC LIGHTING	TYPE EH1	POLE MOUNTED CUTOFF TYPE FIXTURE WITH ALUMINUM HOUSING, BRONZE FINISH AND 30" HIGH SQUARE STRAIGHT ALUMINUM POLE	HPS	400W HPS 2	277	930	PL	POLE MOUNTED ON CONCRETE PEDESTAL
S	INTENSE	IFH9-242-E-27-1100-IC910-C	LITHONIA COLUMBIA	-	RECESSED 9" FLUORESCENT, 2-LAMP DOWNLIGHT	FL	42W 4-PIN 2	277	94	R	
T	LITHONIA	WFL3-400S-RN-277-DWH	HOLOPHANE GENERAL ELECTRIC LIGHTING	-	FLOODLIGHT WITH ALUMINUM HOUSING	HPS	400W HPS 1	277	465	S	COLOR TO BE SELECTED BY CONTRACTING OFFICER'S REPRESENTATIVE
NOT USED											
V	LITHONIA	TXC400MA23277	HOLOPHANE GENERAL ELECTRIC LIGHTING	TYPE PH7	ENCLOSED METAL HALIDE HIGH BAY	MH	400W MH 1	277	465	P	PENDANT MOUNTED AT +16'-0" AFF
W	LITHONIA	2PM3N-GB3-32-18-LD-277 ADVANCE DIMMING BALLAST	COLUMBIA H.E. WILLIAMS	TYPE R	RECESSED 2'x4' 3-LAMP PARABOLIC TROFFER WITH 18 CELL LOUVER, DIMMING BALLAST IN T-BAR CEILING	FL	F032 18/35K 3	277	90	R	
X	LITHONIA	AW232277 GEB	COLUMBIA H.E. WILLIAMS	TYPE SF4	1'x4' 2-LAMP FLUORESCENT, WRAP AROUND LENSED FIXTURE	FL	F032 18/35K 2	277	58	S	
Y	LITHONIA	AW332277 GEB	COLUMBIA H.E. WILLIAMS	TYPE B	1'x4' 3-LAMP FLUORESCENT, WRAP AROUND LENSED FIXTURE	FL	F032 18/35K 3	277	87	S	
Z	LITHONIA	SS1-32-277-GEB	COLUMBIA H.E. WILLIAMS	-	FLUORESCENT 4' LONG 1-LAMP STAGGERED STRIP FIXTURE MOUNTED WITHIN COVE	FL	F032 18/35K 1	277	38	S	

LIGHTING FIXTURE SCHEDULE (CONTINUATION)											S=SURFACE R=RECESSED C=CHAIN FL=POLE P=PENDANT
TYPE	MANUFACTURER	CATALOG NO.	ALTERNATE MANUFACTURERS	CORP. STANDARD DETAIL No. 40-06-04	FIXTURE DESCRIPTION	LAMPS		VOLT	FIXT. INPUT	MTG	REMARKS
						TYP	DESCRIPTION QTY.				
AA	BASELITE	GLGUW-1	CROUSE-HINDS GENERAL ELECTRIC LIGHTING	TYPE -	VAPORTIGHT INCANDESCENT JAR TYPE FIXTURE	IN	100W A-19 130V 1	120	100	S	MOUNT AS DIRECTED BY ELEV. MANUFACTURER
BB	LITHONIA	ELT50-H012	DUALITE SILTRON	TYPE K	EMERGENCY LIGHTING UNIT WITH STEEL HOUSING	IN	20W HALOGEN 2	277	20	S	MOUNT AT +10'-0" AFF
CC	LOUIS POULSEN	CRP-MAX	OR EQUAL	-	PENDANT LIGHTING FIXTURE	FL	18W CFQ 3	297	65	P	----
DD	LITHONIA	KBR6 70S RS 277 DWH	HOLOPHANE GENERAL ELECTRIC LIGHTING	TYPE EH11	42" H X 6" ROUND WALKWAY BOLLARD WITH WHITE FINISH	HPS	70W HPS 1	277	97	S	MOUNT ON CONCRETE BASE
EE	LITHONIA	WFL2 150SGZ 277 DNA	HOLOPHANE GENERAL ELECTRIC LIGHTING	TYPE EB8	ARCHITECTURAL ADJUSTABLE WALL-PAK WITH NATURAL ALUMINUM FINISH	HPS	150 HPS 1	277	175	S	WALL MOUNTED AT +18' HIGH
FF	LITHONIA	2PM3N GB3 32 18 LD 277 GEB EL14	COLUMBIA H.E. WILLIAMS	TYPE R	RECESSED 2'x4' 3-LAMP PARABOLIC TROFFER WITH 18 CELL LOUVER IN T-BAR CEILING	FL	F032 18/35K 3	277	90	R	WITH EMERG. BATTERY PACK
GG	LITHONIA	2PM3N GB2 32 12 LD 277 GEB EL14	COLUMBIA H.E. WILLIAMS	-	RECESSED 2'x4' 2-LAMP PARABOLIC TROFFER WITH 12 CELL LOUVER IN T-BAR CEILING	FL	F032 18/35K 2	277	58	R	WITH EMERG. BATTERY PACK
HH	LITHONIA	AF10 232 277 GEB EL14	COLUMBIA H.E. WILLIAMS	TYPE A	4' LONG 2-LAMP INDUSTRIAL STRIP FIXTURE WITH SEISMIC RESTRAINT	FL	F032 18/35K 2	277	58	S	WITH EMERG. BATTERY PACK
JJ	SPORTLITE	LX8-T42-35K-22LEXCP-277-3PEN-EP30	GUTH RUUD	-	ENERGY EFFICIENT 8-LAMP FLUORESCENT HIGH BAY LIGHT FIXTURE	FL	42W GX24 04 35K 8	277	376	P	WITH EMERG. BATTERY PACK - UNSWITCHED
KK	INTENSE	IFV826-E-27-1100-ICH-188C-EM	LITHONIA COLUMBIA	TYPE RF5	RECESSED 8" FLUORESCENT DOWN LIGHT	FL	26W 35K 1	277	32	R	WITH EMERG. BATTERY PACK
LL	LITHONIA	2SP8-G232-A12-277-GEB-EL14	COLUMBIA H.E. WILLIAMS	TYPE C	RECESSED 2'x4' 2-LAMP LENSED TROFFER WITH PRISMATIC ACRYLIC LENS	FL	F032 18/35K 2	277	58	R	WITH EMERG. BATTERY PACK
MM	SPORTLITE	LX4-T42-35K 22LEXCP-277-3PEN-EP30	GUTH RUUD	-	ENERGY EFFICIENT 4-LAMP FLOUR. HIGH BAY LIGHT FIXTURE	FL	42W GX24 04 35K 4	277	188	P	WITH EMERG. BATTERY PACK -UNSWITCHED
NN	INTENSE	IFH9-242-E-27-1100-IC910-C-EM	LITHONIA COLUMBIA	-	RECESSED 9" FLUORESCENT, 2-LAMP DOWNLIGHT	FL	42W 4-PIN 2	277	94	R	WITH EMERG. BATTERY PACK
PP	LITHONIA	AW332277 GEB EL14	COLUMBIA H.E. WILLIAMS	TYPE B	1'x4' 3-LAMP FLUORESCENT, WRAP AROUND LENSED FIXTURE	FL	F032 18/35K 3	277	87	S	WITH EMERG. BATTERY PACK
QQ	LITHONIA	TWN-1008-277	OR EQUAL	-	WALL=PARK DIE CAST ALUMINUM	HPS	70 HPS 1	277	58	S	----
RR	LITHONIA	AW232277 GEB EL14	COLUMBIA H.E. WILLIAMS	TYPE SF4	1'x4' 2-LAMP FLUORESCENT, WRAP AROUND LENSED FIXTURE	FL	F032 18/35K 2	277	58	S	EXCEPT WITH EMERG. BATTERY PACK
SS	CROUSE-HINDS	VDAS/A/024	EDWARDS FEDERAL SIGNAL	-	6" DIA X 9"H STROBE LIGHT WITH LENS DOME OUTDOOR	ST	STROBE TUBE 1	24 VDC	40	PL	----
TT	VISA	CB5100-F3CL	OR EQUAL	-	WALL MOUNTED LIGHTING FIXTURE	FL	36W 1	277	40	S	----
UU	KIM	LTV10SP	LITHONIA	-	INGRADE LIGHTING FIXTURE	MH	150W 1	277	175	S	----
VV	KIM	CFL	LITHONIA	-	SIGN LIGHTING	HPS	70W 1	277	87	S	----
WW	LITHONIA	AH175M ATZ 277	COLUMBIA H.E. WILLIAMS	TYPE RH5	RECESSED 12" DOWNLIGHT	MH	175W 1	277	195	R	----
XX	VISA	CB5110-2F13 (277) -A-BA	LITHONIA COLUMBIA	TYPE WF2	WALL MOUNTED LIGHTING FIXTURE	FL	13W 2	277	35	S	METALLIC SILVER
YY	COLE	2512R-N-556-HD-W-277	OR EQUAL	TYPE RH5	CEILING MOUNTED LIGHTING FIXTURE	MH	150W 1	277	175	R	----
ZZ	BARTCO	BFL255-32-277	OR EQUAL	-	4' - 1 LAMP LOW PROFILE FLUORESCENT LIGHTING FIXTURE	FL	32W 1	277	38	S	----
AAA	LITHONIA	WFL2-150S-RN-277-DWH	HOLOPHANE GENERAL ELECTRIC LIGHTING	-	FLOODLIGHT WITH ALUMINUM HOUSING	HPS	150W HPS 1	277	190	S	COLOR TO BE SELECTED BY CONTRACTING OFFICER'S REPRESENTATIVE

Seal:



Revision:

No.	Date	By	Description
0	07/23/04		100% SUBMITTAL
1	08/31/04		AMENDMENT #2

CALIFORNIA ARMY NATIONAL GUARD
LANCASTER READINESS CENTER
CITY OF LANCASTER, LOS ANGELES CO. CA.



Keyplan:

Scale:

Jacobs Project No.: F1W15401
ARNG Project No.: 060297
Drawing Title:

ELECTRICAL
LIGHTING FIXTURE
SCHEDULE

Designed By: UL
Drawn By: JTR
Checked By: AH
Drawing No.: E801

MODIFIED FOR SITE ADAPTATION AT
LANCASTER READINESS CENTER
DRAWING FILE NO. 200-25-153
DEPT. SPEC. NO. 1406

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA